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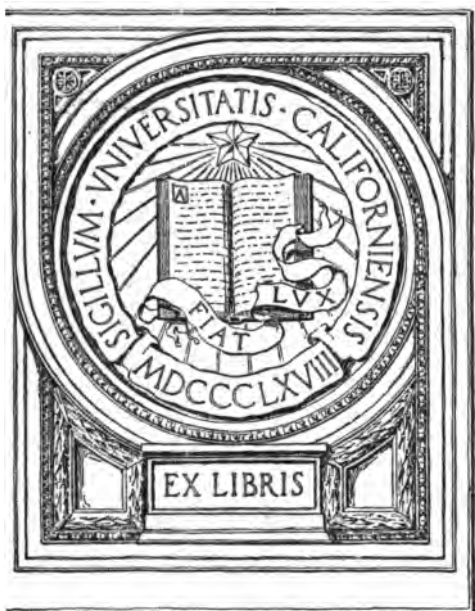
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JOURNAL

OF THE

AMERICAN ORIENTAL SOCIETY

EDITED BY

JAMES A. MONTGOMERY

Professor in the
University of Pennsylvania


GEORGE C. O. HAAS

Sometime Instructor in the
College of the City of New York

VOLUME 37 · PART 1 · MAY 1917

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American Oriental Society

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Committee on Nominations for 1918—Professors SCHMIDT, R. G. KENT, and WORRELL.

Auditors for 1918—Professor F. W. WILLIAMS and Professor HOPKINS.

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PROCEEDINGS
OF THE
AMERICAN ORIENTAL SOCIETY

AT THE MEETING IN BOSTON, MASS., 1917

The annual meeting of the Society, being the hundred twenty-ninth regular meeting since its establishment, was held in Boston, Mass., in the House of the American Academy of Arts and Sciences, 28 Newbury Street, on Tuesday and Wednesday of Easter Week, April 10th and 11th, 1917.

The following members were present at one or more of the sessions:

Abbott	DeLong	Jastrow	Ogden, Miss
Abbott, Mrs.	Edgerton	Jewett	Sanders
Albright	Ellis	Kellner	Schmidt
Arnold	Fullerton	Kyle	Schoff
Barret	Gavin	Lanman	Steele
Barton	Gellot	Magoun	Tedeshe
Bates, Mrs.	Gottheil	Martin	Torrey
Breasted	Grant	Montgomery	Vaschalde
Burrage	Gray	Moore, G. F.	Warren
Cadbury	Gray, Mrs.	Moore, Mrs. G. F.	Werren
Carnoy	Haas	Morgenstern	Westermayr
Chester	Hanchett, Mrs.	Muss-Arnolt	Winalow
Clay	Haupt	Nies, J. B.	Wolfson
Coomaraswamy	Hopkins	Ogden	Worrell
Crandon	Hussey, Miss		

[Total: 58]

The first session was held on Tuesday morning, beginning at 11:15 A. M., the President, Professor Barton, being in the chair.

The reading of the Proceedings of the meeting in Washington, April 24th, 25th, and 26th, 1916, was dispensed with, as they had been published in the JOURNAL (36. 428-443). There being no corrections, they were approved as printed.

The Committee of Arrangements presented its report, thru Professor Lanman, in the form of a printed program. The succeeding sessions were appointed for Tuesday afternoon at two, Wednesday morning at half past nine, Wednesday afternoon at two. A fifth session, if it should be found desirable to hold one, was appointed for Thursday morning at half past nine. It was announst that there would be an informal gathering of the members on Tuesday evening in the Reading Room of the House of the American Academy; that the session on Wednesday morning would be devoted to papers dealing with the historical study of religion and to those of a more general character; that the members of the Society were invited to be the guests of the local members at luncheon—the ladies at the College Club, the men at the Harvard Club—on Wednesday at one o'clock; that the annual dinner, at which the local members would entertain the visiting members, would take place at the Hotel Brunswick on Wednesday evening at half past seven; and that a committee of local members would be glad to show visitors over the Widener Library of Harvard University, the Semitic Museum, the University Museum, and other points of interest in Cambridge, at the close of the meeting.

It was voted to send a telegram of greeting to the Society's oldest member, Professor Basil L. Gildersleeve, and likewise to Professor Crawford H. Toy.

REPORT OF THE CORRESPONDING SECRETARY

The Corresponding Secretary, Professor Franklin Edgerton, presented the following report:

On account of the continuance of the war in Europe, the international correspondence of the Society continues to be at a low level, and the Secretary's duties during the past year have been concerned mainly with our internal and domestic affairs.

This year has been marked by one event of prime importance in the history of our Society—the formation of a Middle West Branch. At last year's meeting the Directors appointed a committee, consisting of Professors Breasted, Olmstead, Morgenstern, and Clay, to consider the founding of such a branch. This committee called a meeting of Orientalists of the Middle West, to convene at Chicago on January 27th, 1917. An excellent program was arranged and successfully carried out. An account of the proceedings has been published in the JOURNAL (36. 423-425). The attendance at the meeting, the interest shown, and the number of new members pledged to our Society have already justified the formation of this branch,

which will, I believe, be of the greatest benefit to the work of the Society as a whole.

The program of the meetings this year has been arranged according to the plan adopted last year, which seemed to prove successful and satisfactory. In order to facilitate and encourage general discussion, the authors of the papers to be presented were asked this year to submit in advance brief abstracts of their communications, these abstracts to be sent to all members indicating their intention to be present. The same abstracts have also been sent to the press of Boston, in the hope of calling attention to the work of the Society by facilitating the publication of accurate newspaper reports.

Deth has been unusually severe on the membership of the Society during the past twelvemonth. It has deprived us of twelve members, nine active and three honorary, some of them of great distinction in the field of Oriental studies and active in the work of our Society.

AUGUSTE BARTH, easily the dean of French Indologists, died at Paris on the 15th of April, 1916, in his 83d year. He had been an honorary member of the Society since 1898. He was also an honorary member of the British Royal Asiatic Society, a corresponding member of the Imperial Russian Academy of Sciences, a member of the Académie des Inscriptions et Belles Lettres, and a member of numerous other learned societies. M. Barth never held any academic post, and indeed had little academic training; he was a self-made scholar. His *Religions de l'Inde* (Paris, 1879) was not only the first work of its kind chronologically, but was remarkable in other respects. Few books have ever been written on so large a field which were so thoroughly original, and few books so original have been at the same time so lucid, so sane, and so comprehensive. It is these characteristics that have combined to make the book one of prime value even to this day. And these are the characteristics of all of Barth's later work, which has consisted mostly of critiques and reviews, sometimes dealing with single publications, sometimes summing up the general progress of knowledge on a more or less wide field. It may fairly be said that many of Barth's brief articles have been worth more than stout books, and that many of his reviews have been more valuable than the works which occasioned them.

JAMES BURGESS, C.I.E., LL.D., who had been an honorary member of this Society since 1899, died at his home in Edinburgh on Oct. 3d, 1916, at the age of 84. Because of the fact that he established both the *Indian Antiquary* (in 1872) and the *Epigraphia Indica* (first volume published in 1892) and because of his numerous monumental publications he may rightfully be designated as in large measure the founder of the modern science of Indian archeology and epigraphy. He became head of the Archaeological Survey of Western India in 1873, of the Archaeological Survey of Southern India in 1881, and of the united Archaeological Surveys of India in 1886. Among his most important works are: *The Cave Temples of India* (with J. Fergusson, 1880); *Buddhist Caves and their Inscriptions* (1883); and *Cave Temples of Elurā* (1887).

Professor Sir GASTON MASPERO died on June 30th, 1916, at the age of 70. By his death our Society lost one of its most eminent honorary mem-

bers (he was elected in 1898) and the world one of its most distinguished scholars. His life was marked by extraordinary activity and usefulness and was crowned with almost every honor that a man of learning could covet, from the time when he was made Professor of Egyptology in the *École des Hautes Études* at the age of twenty-three, and in the *Collège de France* at the age of twenty-seven, to the year 1909, when he received the distinction (rare for a foreigner) of an English knighthood in recognition of his achievements as Director of the Service of Antiquities in Egypt. The value of his contributions to Egyptology is held to be enormous. He was, moreover, one of that never too common type of scholars who know how to combine scientific industry and accuracy with lucid and skilful popular presentation. His *Ancient History of the Peoples of the Classical Orient* has made those early times alive and real for those who could not follow his scientific investigations.

We all feel not only professionally but also personally the deepest sense of bereavement in the loss of Dr. WILLIAM HAYES WARD, whose long life of usefulness ended on August 28th, 1916. He was one of our oldest members, having joined the Society in 1869; and for many years he was one of the leaders in the Society's work. He was President from 1890 to 1894 and again in 1909-1910. No few sentences could adequately express what Dr. Ward has been to our Society. Rather than attempt such a task, I refer to Professor Jastrow's able memorial sketch recently printed in the *JOURNAL* (36. 233-241).

Another of our most active and distinguished members, the Rev. Dr. FRANCIS BROWN, died in New York on October 15th, 1916. He had been connected since 1879 with Union Theological Seminary, where he became Professor of Hebrew and Cognate Languages in 1890 and President in 1908. He was not only one of the most noted theologians of the country, but also an eminent Orientalist and productive scholar, especially in the field of Hebrew lexicography. He was actively interested in the work of the Society, of which he had been a loyal and devoted member since 1881.

Oriental studies generally and Egyptological researches in particular have lost a generous supporter in Mr. ECKLEY BRINTON COXE, JR., of Philadelphia, who died on September 20th, 1916. Though not a scholar by training, he took an active and intelligent interest in the antiquities of Egypt from an early period of his life, and repeatedly visited that country. Later he fitted out two expeditions to Nubia and Egypt, which were conducted by the University of Pennsylvania Museum, in 1907 and again in 1915. The latter expedition was still engaged in fruitful research at the time of its patron's death. Mr. Coxe was president of the Board of Managers of the Museum of the University of Pennsylvania, and was a life member of our Society, which he joined in 1913.

Professor LEVI H. ELWELL, a member of the Society since 1883, died on December 27th, 1916. He had been on the staff of Amherst College since 1877, as instructor and professor in the departments of Latin and Greek. His claim to distinction as an Orientalist rests on the fact that he prepared the first Pāli book ever issued in America—the *Nine Jātakas* (1886), a most convenient little volume, which has been useful to many a

student beginning the study of Pāli. Among his avocations wer botany and genealogy, on both of which subjects he wrote many minor articles and som books.

Professor HENRY FERGUSON, who became a member of the Society in 1876, died at his home in Hartford, Conn., on March 30th, 1917, in his 70th year. He was a man of varied interests and manifold activities—a clergyman of the Episcopal Church, a professor of History and Political Science, an educator (he was for som years hed of St. Paul's School at Concord, N. H.), and an author of books and monographs on historical subjects.

Dean SAMUEL HART, D.D., D.C.L., LL.D., died February 25th, 1917. He, too, had a wide range of interests, and he attaind markt distinction in several fields. For many years he was professor—first of Mathematics, then of Latin—in Trinity College. He became professor and vice-dean in Berkeley Divinity School, Middletown, Conn., in 1899, and dean in 1908. This last position he held at the time of his deth. He was also secretary of the House of Bishops of his Church since 1886; president of the Connecticut Historical Society since 1900; and a senator of Phi Beta Kappa since 1892. He was a classicist of distinction; edited the Satires of Persius and of Juvenal; and was at one time secretary and later president (1892) of the American Philological Association. He was also actively interested in Oriental, especially Hebrew, studies, and edited the Mozarabic liturgy. He was a member of the Society since 1879.

The Rev. HUGO W. HOFFMANN, Ph.D., for twenty-two years pastor of St. Paul's Evangelical Lutheran Church, Brooklyn, N. Y., died very suddenly on February 3d, 1917. He was formerly a student of Semitic languages at New York University, under Professor Prince, and had been a member of the Society since 1899.

Professor PERCIVAL LOWELL, the celebrated astronomer, died on November 13th, 1916, at Flagstaff, Arizona. His scientific and scolarly activities wer confined to the field of astronomy, in which he was not only an able scolar but also a brilliant popularizer. But his activ interest in the Orient is attested by his authorship of such books as *The Soul of the Far East*, *Occult Japan*, etc., as wel as by his membership in our Society (since 1893) and in the Royal Asiatic Society.

The Rev. HERVEY BOARDMAN VANDERBOGART, a member of the Society since 1911, died on January 30th, 1917. He was a graduate of Trinity College (1903), and had been a member of the faculty of Berkeley Divinity School, Middletown, Conn., since 1910.

In concluding this report the Corresponding Secretary desires to express his very grateful appreciation of the cordial and helpful co-operation accorded him by his fello members and especially by the Recording Secretary, Dr. Haas.

Tribute was paid to some of the members whose death was reported: Professor Hopkins spoke on M. Barth and Mr. Burgess; Professor Lanman made appreciative remarks concern-

ing Professor Hart, Professor Elwell, Mr. Burgess, and M. Barth; Professor Jastrow spoke on Mr. Coxé; Professors Gottheil and Barton and Mr. Steele referred to the character and achievements of President Brown.

Professor Lanman then read a letter from Ceylon regarding the publication of commentaries on the Buddhist Tripitaka and their gratuitous distribution to libraries in this country.

REPORT OF THE TREASURER

The Treasurer, Professor Albert T. Clay, presented the following report:

RECEIPTS AND EXPENDITURES FOR THE YEAR ENDING DEC. 31, 1916

Receipts

Balance from old account, Dec. 31, 1915	\$3195.36	
Annual dues	\$1518.15	
Life membership fee	75.00	
Sales of publications	273.59	
Interest on bonds: Virginian Railway Co.	50.00	
Lackawanna Steel Co.	100.00	
Minn. General Electric Co.	50.00	
Interest on balances, to June 30, 1916	164.96	2231.70
		<u>\$5427.06</u>

Expenditures

Printing of the Journal, vol. 36, part 1	\$528.11	
Editors' honorarium	200.00	
Printing, postage, and clerical work for the Corresponding Secretary	92.61	
Printing of notices concerning the Journal	14.02	
Printing bills, etc., and mailing for the Treasurer	19.80	
Library account: postage, war tax on shipments, etc.	8.74	
clerical work	472.00	
classification of Japanese books	12.50	1347.78
Balance to new account		<u>4079.28</u>
		<u>\$5427.06</u>

In addition to the balance of \$4079.28 deposited with Yale University, the Treasurer of that institution holds the following bonds for the Treasurer of the Society:

2 Lackawanna Steel Company	\$2000
1 Minneapolis General Electric Company	1000
1 Virginian Railway Company	1000
2 Chicago, Rock Island & Pacific Railway	2000
	<u>\$6000</u>

At the last meeting the Treasurer requested the permission of the Society to make a readjustment of the funds, so as to create a Life Membership Fund and to re-establish a fund to be known as the Whitney Fund. He also asked for permission to fix a stated sum as principal for the Bradley and Cotheal Funds, so that the interest accruing could be used for publication and other purposes. The Directors authorized him, provided there be no legal obstacles, to use the surplus of all funds above the original amount, and the interest annually accruing thereon, for the re-establishment of such funds as may have been allowed to lapse, and for the publication of the Journal and other works.

Subsequently, in examining the minutes of the Society, the Treasurer found that practically everything that he had asked permission to do had years ago been ordered by the Society.

The minutes for May, 1890, state that 'the Treasurer reported a gift from Mr. A. I. Cotheal of New York, one of the oldest members of the Society, and long a director, of one thousand dollars intended by the donor as a nucleus of a Publication Fund and prescribed by him to be invested that its interest may be used to help in defraying the cost of the Journal and Proceedings' (PAOS 15. ii).

Two years later we find it recorded that 'the Treasurer further received, April 4, 1892, from an anonymous giver, the sum of one thousand dollars (not included in the foregoing statement) to be added to the Society's Publication Fund; the principal of said sum to be left intact, and its interest to be used towards defraying the Society's expenses of publication. The gift was made as "a help to the Society" and in the hope that the gift—along with the gift of the like sum from Mr. Cotheal—might serve as a "suggestion and encouragement to others to do likewise"' (PAOS 15. cxlii). The Treasurer wishes to add that the anonymous benefactor was the late William Dwight Whitney.

In April, 1892, it was voted 'that henceforth the fees received in composition for annual assessments to constitute Life Members be treated by the Treasurer as part of the Capital Fund of the Society' (PAOS 15. cxliii).

In going back to the minutes of May, 1865, nearly thirty years earlier, shortly after the death of the Hon. Charles W. Bradley, LL.D., of New Haven, we find it recorded that his donations to the Society's collections of books and MSS. had been vastly greater than those of any other person, and that, by means of personal solicitation he had brought to the treasury more than a thousand dollars, a part of it for the specific object of the purchase of a font of Chinese type (PAOS 8. lxii).

After careful consideration of all matters connected with these foundations and the present financial status of the Society, the Treasurer wishes to present the following list of capitalized funds, the interest of which can be used for publication purposes, at the same time expressing the hope that the reports of Treasurers in future will annually record them for the benefit of the members, as a 'suggestion and encouragement to others to do likewise.'

CAPITALIZED FUNDS

Charles W. Bradley Fund	\$3000
Alexander I. Cotheal Fund	1500
William Dwight Whitney Fund	1000
Life Membership Fund	2075
	<hr/>
	\$7575

REPORT OF THE AUDITING COMMITTEE

We hereby certify that we have examined the account of the Treasurer of the Society, and have found the same correct, and that the foregoing account is in conformity therewith. We have also compared the entries with the vouchers and the account book as held for the Society by the Treasurer of Yale University, and have found all correct.

F. W. WILLIAMS } *Auditors*
 CHARLES C. TORREY }

NEW HAVEN, CONN., April 4, 1917.

It was voted to postpone consideration of the remaining items of business to the next business session on Wednesday afternoon. The President then delivered the annual address, the subject being 'Ancient Babylonian Expressions of the Religious Spirit.'

In view of the length of the morning session it was decided to reconvene at 2:30 P. M. instead of at 2 P. M. Thereupon, at 1:15 P. M., the Society took a recess until the time set.

SECOND SESSION

The second session began at 2:36 P. M., with the President in the chair. According to the first program prepared by the Corresponding Secretary, the Society proceeded at once to the hearing of communications, in the following order:

Professor E. GRANT, of Smith College: Smith College tablets of the period of the First Babylonian Dynasty.

Nearly a score of tablets from the collection at Smith College, presented in facsimile, transliteration, and translation. They comprise court agreements, sales, loans, leases, receipts, and lists from the reigns of Samsuiluna, Abi-eshua, Ammiditana, etc. 'One especially interesting tablet is a legal document concerning the family status of a sacred woman of the god Ramman.

Professor A. V. W. JACKSON, of Columbia University: Added etymological notes on the Old Persian Inscriptions. (Presented in brief abstract by the Corresponding Secretary.)

(1) Etymological support of the interpretation of OP. *am'utha* as a verbal form, meaning 'he fled.' (2) A possible additional item

of testimony from the Baluchi that the adjective OP. *uvāmrāṣyūṣ* means 'by a natural death.' (3) Brief etymological comments on some other OP. words.

Professor L. C. BARRET, of Trinity College: Hindu sculpture and architecture.

If the conclusions of the modern psychology of beauty be accepted, there appear reasons why later Hindu sculpture falls far short of high attainment: the effort to portray the spiritual by violating the laws of matter and by misrepresenting its organized forms is an illogical proceeding, as might be expected from artists who handled a material whose very existence was held to be an illusion. The aims of architecture seem to hold it back from the greatest faults of Hindu sculpture.

Professor J. H. BREASTED, of the University of Chicago: The earliest boats on the Nile. (Illustrated with photographic projections.)—Remarks by Mr. Schoff and Dr. Nies.

Professor E. W. HOPKINS, of Yale University: Indic and Indian religious parallels. [Printed in the JOURNAL, 37. 72-84.]—Remarks by Professors Carnoy and Jastrow.

Dr. J. B. NIES, of Brooklyn, N. Y.: Is *UMMA* the correct reading for the ideogram *GIS-ÚH*?—Remarks by Professor Clay.

The author has in his collection a tablet in which the city Umma is mentioned written not *GIS-ÚH* as usual, but *UMMA*. This does not prove that the latter is the same as the former, but it points in that direction, and it does prove that there was a city named Umma in Babylonia.

Professor K. FULLERTON, of the Oberlin School of Theology: Does Isaiah teach the inviolability of Jerusalem at Is. 10. 5-15?—Remarks by Professor Arnold.

The chief problem of anti-Assyrian prophecies is whether Isaiah taught the inviolability of Zion. Is. 10. 5-15 is the key to these prophecies. Vs. 13-15 and vs. 5-7a indicate a contrast between Jahweh's and Assyria's theories of Assyria's conquests. Jahweh's theory: Assyria is his instrument of punishment; Assyria's theory: Assyria conquers in its own power. Vs. 7b-12 indicate a contrast between Jahweh's and Assyria's plans. Jahweh's plan: chastisement, Jerusalem to be ultimately saved; Assyria's plan: destruction. Vs. 7b-12 in their present form are secondary. Conclusion: Isaiah does not teach the inviolability of Jerusalem.

Professor J. A. MONTGOMERY, of the University of Pennsylvania: A Christian incantation bowl in the 'Manichaean' script.

An example of a well-known class of charms from Babylonia, written on the inside of clay bowls, in an Aramaic dialect. This case is unique, as the charm includes, along with the invocation of pagan and Jewish deities and angels, also the Trinitarian formula.

Professor C. C. TORREY, of Yale University: Three passages from the Koran: 1. The *shahādāt al-bain* (5. 105). 2. 'The dog *Raqim*' (18. 8, 17). 3. An emendation of the text (64. 14).

The Corresponding Secretary then presented in abstract papers submitted by members unable to be present at the sessions, in the following order:

Dr. F. R. BLAKE and Dr. A. EMBER, of Johns Hopkins University: A new Hebrew Grammar.

The authors have felt the need of a practical Hebrew grammar, and the present work is an attempt to supply that want. It is believed that the combined labors of two scholars, one especially interested in linguistic science and one with a native command of Hebrew, will produce a work better adapted to the needs of students than any yet published.

The grammar will consist of two volumes, the first containing all the most essential facts, and the second enlarging on and supplementing the first. The chief features of the work will be: scientific accuracy, practical arrangement, simplification of difficult points, conversation, chrestomathy.

Dr. F. R. BLAKE, of Johns Hopkins University: (a) The etymology of the Semitic particle *ka*, 'like'; (b) The compound particle *ki-im* in Hebrew.—Remarks by Professor Haupt.

(a) The Semitic particle *ka* is supposed by many to be a noun meaning 'likeness' standing in the construct state before a genitive. It seems, however, to be identical with the demonstrative element *k* which occurs in many demonstrative pronouns, e. g. Arabic *dhalika*, Aramaic *dek*, Ethiopic *zeku*, etc. That such is the case seems to be shown by the fact that comparative particles meaning 'as, so,' in other languages are often derived from pronominal elements; e. g. English *so* and *as* (originally *al-so*) are connected with the Indo-European pronominal root *sva* (Skt. *sva*, Lat. *suus*, 'his, her'), etc.

(b) The compound particle *ki-im* has a variety of meanings depending on the various meanings of *ki* and *im*. Its most important meaning is 'but' after a negative, German *sondern*. In this meaning it referred originally to what preceded, the adversative idea referring to what follows being developed as the result of the collocation. In such a sentence in Hebrew as 'the horse is not white *but* black' the original meaning was either 'the horse is not white, *if not* (so, then) black' or '... not white, *verily not*, (it is) black.' Both conceptions are supported by parallels in other languages.

Professor E. W. FAY, of the University of Texas: Indo-Iranian direction adjectives.

Notes on the etymology of several such adjectives: *ji-h-má*, posterior *añc*, etc.

Dr. B. LAUFER, of the Field Museum of Natural History: The vigesimal and decimal systems in the Ainu numerals, and some remarks on Ainu phonology.

In the first part of this paper an analysis is given of the numerals common to the three principal dialects of Ainu, those of Yezo, Sag-

halin, and Kuril. This system is thoroly vigesimal, the number 5 being exprest by the word for 'hand' and the highest unit being 20. Years ago the writer found in the southeastern part of Saghalin also a decimal system of counting, hitherto unknown. It is shown that this progress was made under the influence of the Manchu, who establisht some kind of suzerainty over Saghalin in the 18th century. The second part of the investigation is devoted to a discussion of the phonetics of the Ainu speech with special reference to the Saghalin dialect, the writer comparing his own data and conclusions with the observations recently made by a Polish scholar, Pil'sudski, and Abbé Rousselot. An attempt is made at reconstructing the ancient consonantal system of the language, which bears no resemblance to any language with which Ainu has erroneously been compared, that is, Altaic, Indo-European, Semitic, or Bask. Ainu is at present an isolated language, its congeners, if they ever existed, being extinct long ago.

Dr. I. M. CASANOWICZ, of the U. S. National Museum: Jewish amulets in the United States National Museum. [Printed in the JOURNAL, 37. 43-56.]

Dr. MOSES SEIDEL, of Johns Hopkins University: *ū* as an old plural ending of the Hebrew noun.

The schedule of papers for the session being thus completed, the Society proceeded to the consideration of items of business not taken up at the morning session.

REPORT OF THE LIBRARIAN

The Librarian, Professor Albert T. Clay, presented the following report:

The work of cataloguing the Library, which was made possible by generous gifts from Professor J. R. Jewett and appropriations from the Society's treasury, is now practically completed. Besides the regular catalog, there has been prepared a shelf-list, which will be used in the printing of the catalog for distribution to the members.

Professor Torrey has very kindly rendered valuable services in connection with the Turkish books in Arabic characters, as well as the Turkish and Arabic manuscripts; and Professor Hopkins has been helpful in the listing of the Sanskrit works. The Librarian wishes to express here his gratitude to these scholars. The books in Chinese and Japanese have been classified by students acquainted with these languages. There remain about 50 Arabic books and 50 Turkish books in Armenian characters, which the Librarian hopes to see catalogued without delay.

It is hoped that the printed list may be in the hands of the members before the next meeting. The cost of publishing it, estimated to be between five and six hundred dollars, will be covered, if at all possible.

without recourse to the funds of the Society. A gift of \$100 for this purpose has been received from Mrs. James B. Nies; other gifts that the Librarian hoped to be able to announce have not yet materialized.

The Librarian takes this occasion to repeat that he is ready to lend the books of the Society to the members. In this way the Library can be of service especially to those far removed from the large libraries of the land.

The following is a list of the principal accessions during the past year:

- The Dinkard, ed. by Darab Dastur Peshotan Sanjana, vol. 15.
 An Expression of the Lore of the Avesta, by Lawrence H. Mills.
 A List of Personal Names from the Temple School of Nippur, by Edward Chiera.
 Public Administration in Ancient India, by Pramathanath Banerjea.
 South Indian Images of Gods and Goddesses, by H. Krishna Sastri.
 Architecture and Sculpture in Mysore, no. 1, by R. Narasimhachar.
 Le Livre de la Création et de l'Histoire, by Cl. Huart.
 Tārīkh-i Jahān-Gushā of Juwayni, by Mirzā Muḥammad of Qazwīn.
 Aērpatastān and Nirangastān . . . tr. by Sohrab Jamshedjee Bulsara.
 The Coming and Passing of Zoroaster, by Ruby.
 The Poetry of Ancient Persia, by M. Pithawalla.
 The Tribes and Castes of the Central Provinces of India, by R. V. Russell, vols. 1, 2, 4.
 The Geographical Part of the Nuzhat al-Qulub, by Hamd Allāh Mustaufi al-Qazvīnī.
 The Origins of the Islamic State, by Aḥmad ibn Yahyā, called al-Baladhuri, tr. P. K. Hitti, vol. 1.
 The Shans, by W. W. Cochrane, vol. 1.
 Some Principles of Algonquin Word-formation, by W. Jones.
 An Account of the Different Existing Systems of Sanskrit Grammar, by S. K. Belvalkar.
 Introduction to Indonesian Linguistics, by R. Brandstetter.
 The Educational Directory of India, 1916.

ELECTION OF HONORARY MEMBERS

The Corresponding Secretary then presented the report of the Directors regarding new members, recommending the election of 72 corporate and 2 honorary members. In order to give the Directors opportunity for further consideration, it was voted to postpone the election of corporate members to a subsequent session. The honorary members were elected by unanimous vote, as follows:

Professor ÉDOUARD CHAVANNES
 Professor SYLVAIN LÉVI

ELECTION OF OFFICERS FOR 1917-1918

The committee appointed to nominate officers for the year 1917-1918, consisting of Dr. Charles J. Ogden, Mr. Wilfred H. Schoff, and Dr. James B. Nies, presented its report thru Dr. Ogden, as follows:

President—Professor Charles C. Torrey, of New Haven.

Vice Presidents—Professor Richard J. H. Gottheil, of New York; Professor Maurice Bloomfield, of Baltimore; Professor Henry Preserved Smith, of New York.

Corresponding Secretary—Professor Franklin Edgerton, of Philadelphia.

Recording Secretary—Dr. George C. O. Haas, of New York.

Treasurer—Professor Albert T. Clay, of New Haven.

Librarian—Professor Albert T. Clay, of New Haven.

Editors of the Journal—Professor James A. Montgomery, of Philadelphia; Dr. George C. O. Haas, of New York.

Directors, Class of 1920—Professor Paul Haupt, of Baltimore; Professor James Richard Jewett, of Cambridge; Professor Roland G. Kent, of Philadelphia.

The officers thus nominated were thereupon duly elected. The Society then adjourned for the day.

THIRD SESSION

The third session began at 9:32 A. M. on Wednesday morning, in the House of the Academy, with the President in the chair.

The Corresponding Secretary read a telegram from Professor Gildersleeve in which he thanked the Society for its message of greeting and sent best wishes for the success of the meeting.

The following communication was then presented:

Professor C. C. TORREY, of Yale University: The need of an American Oriental Review.—Remarks by Professors Lanman, Clay, and Barton.

After the discussion it was voted to refer the question of the establishment of an American Oriental Review to the Publication Committee with power to take action, if feasible.

The reading of communications was continued, as follows:

Mr. L. DOMINIAN, of the American Geographical Society: The site of Constantinople: a factor of historical value. (Presented in abstract by the Corresponding Secretary.) [Printed in the JOURNAL, 37. 57-71.]

Professor C. R. LANMAN, of Harvard University: The Harvard Oriental Series: its purpose and setbacks and progress.—Remarks by Mr. Westermayr, Professor Fullerton, Dr. Coomaraswamy, and Professor Barton.

This series, founded about twenty-five years ago by Professor Lanman with the aid of the late Henry Clarke Warren, consists of texts and translations of the literary monuments of ancient India, and of investigations concerning the history and religious antiquities of India. The war is hampering the whole undertaking in the gravest manner, in part because the contributors are scholars of Europe and India, in part because the Oriental printing is done at Oxford and Bombay. In spite of all this, however, 21 volumes are out, 3 nearly finished volumes are held up by the war, and 8 are in press and should be ready in a few weeks—32 in all—while yet others are far advanced in preparation or nearly ready in manuscript.

The Society voted to extend its congratulations to Professor Lanman on the splendid results of his labors in conducting this great enterprise.

Further communications were then presented, in the following order:

Professor J. MORGENSTERN, of Hebrew Union College, Cincinnati: Semitic birth ceremonies and the rite of circumcision.—Remarks by Professor Jastrow and Dr. Kyle.

Various peculiar rites were performed by Semitic peoples at child-birth, such as offering a tabu-sacrifice, cutting the child's first hair, rubbing the child with salt, etc. At birth and for seven days thereafter a child was thought to be under the influence of evil spirits and therefore tabu. It was freed by the performance of these rites, usually on the eighth day after birth. Similar rites were performed at other critical moments of life (puberty, marriage, etc.), when danger from evil spirits threatened.

Professor A. J. CARNOY, of the University of Pennsylvania: Healing gods and storm-gods in Iran.

The relation between storm, fertility, and healing powers found by Professor Hopkins in the Vedic god Indra is present in other Indian deities and in the religions of other peoples. It is especially clear in the Persian healing hero Faridūn, and one can demonstrate that it existed also in Irmān (Aryaman), in the sacred tree *gōkard*, etc.

Professor P. HAUPT, of Johns Hopkins University: The Son of Man.—Remarks by Professors Schmidt, Breasted, Werren, Montgomery, and Morgenstern, and reply by Professor Haupt.

'Son of man' is the common Aramaic term for 'man.' The original meaning is 'son of a man,' not a 'son of a nobody' (Assyr. *mār lā-māman*). In the Code of Hammurapi *mār amili*, 'son of a man,' denotes a 'full-born man,' while *muškinu* is a 'free-born man.' The primary connotation of the term 'son of man' was 'gentleman'; afterwards it was employed for 'man' in general, and 'man' may be used for 'one' and 'I': 'A man cannot do it' may mean 'One cannot do it' or 'I cannot do it.' This was the original meaning of the phrase in the Gospels (cf. Matthew 7. 20; 11. 19).

Dr. J. E. ABBOTT, of Summit, N. J.: Dnyāneshwar, the Mahārāshtra saint and poet.—Remarks by Professor Hopkins.

The tradition in Western India that Dnyāneshwar was the first in the line of Marathi poets has strong corroboration. He lived during the reign of Rāmchandra, and a short note at the end of his commentary on the Bhagavad-gītā gives the date of the completion of that work as 1290 A. D. His purpose in composing in Marathi was that the common people might understand their own scriptures and profit thereby. His writings are not now easily understood by the people because of their obsolete form and vocabulary, but they are highly and justly honored. Thousands of pilgrims visit his shrine each year.

Professor M. JASTROW, JR., of the University of Pennsylvania: The Sumerian and Akkadian calendar.—Remarks by Professors Haupt and Barton.

A study of the various calendars in use in Babylonia and Assyria at different periods, on the basis of a renewed study of the text 5 Rawlinson, pl. 43, supplemented by the nomenclature in early business documents, in Cappadocian and Elamitic texts, and in the historical and astrological literature of Babylonia and Assyria. The Sumerian calendar is based on a year beginning in the fall; the Akkadian, on one beginning in the spring.

It was voted to reconvene at 2:30 P. M. (instead of at 2 P. M., as planned), and the Society then, at 12:43 P. M., took a recess until the time set.

~ FOURTH SESSION

The fourth session was opened at 2:50 P. M., with the President in the chair, and the presentation of papers was resumed, as follows:

Dr. M. G. KYLE, of Philadelphia, Pa.: A new solution of the Pentateuchal problem.—Remarks by Professor Morgenstern and additional observations by the author.

A brief and popular statement of a very extended study based on the use of words in the Hebrew original and upon a technical classification of the Pentateuchal laws. The results furnish a very simple and satisfactory explanation of the peculiarities of style in different parts of the Pentateuch and afford an interesting and somewhat surprising comparison with the divisions of the Pentateuch suggested by the current Documentary Hypothesis.

Professor F. EDGERTON, of the University of Pennsylvania: The Kashmirian Pañcatantra, and its position among versions of the Pañcatantra.

There are 5 streams of tradition of the Pañcatantra. 1. The Kashmirian Pañcatantra, or Tantrākhyāyika (discovered about 1903;

imperfectly ed. by J. Hertel): the closest of the extant versions to the original, but still *very* far from it (esp. in numerous additions). 2. Pahlavi (Syriac, Arabic): based on an old Skt. text probably superior to the Tantrākhyāyika. 3. 'N-W' (whence the Southern and Nepalese versions, Hitopadeśa): abbreviated; otherwise original. 4. Brhatkathā: greatly abbreviated; poetic, hence unoriginal in details. 5. Simplicior: generally speaking farthest from the original; expanded.—All these five are derived ultimately from one lost 'Urtext': no closer relationship between any of them is demonstrable.

Professor N. SCHMIDT, of Cornell University: The two recensions of Slavonic Enoch.

It is generally recognized that we possess two different recensions of Slavonic Enoch, one longer than the other. Charles and Bonwetsch regard the longer recension as the more original, and the shorter as an incomplete edition. The difficulty with this view is that the latter would then by accident, since intention is inconceivable, have left out just those passages and turns of expression that have been relied upon to prove that the work was written in Greek by an Alexandrian Jew. The two recensions are most naturally explained on the supposition that the shorter text represents the first Slavonic translation made from a Greek version of a Hebrew or Aramaic original, while the other is a later Slavonic version made from a different Greek manuscript which had been amplified by some Alexandrian copyist.

Mr. W. H. SCHOFF, of the Philadelphia Commercial Museum: Navigation to the Far East under the Roman Empire.

Professor H. J. CADBURY, of Haverford College: An English version of the word-play in Amos 8. 1, 2.—Remarks by Professor Haupt and Dr. Kyle.

Dr. W. F. ALBRIGHT, of Johns Hopkins University: Gilgames and Engidu, Babylonian genii of fertility.

Engidu is identical with Gira-šakan, a god of fecundity and specifically of animal husbandry. Apparently there are two principal šakan types: a native one, associated with the gazelle, and an exotic, perhaps Gutean, ass-divinity. The heroic figure on archaic cylinders, impregnating a gazelle, is šakan. Gilgames, primarily a god of sprouting vegetation, also represents the sun as the power causing growth. The oldest forms of his name, (d)Giš-gibil-ga-mes and (d)Giš-gibil-gin-mes, both stand for *(d)Giš-gibil-gan-mes, 'the torch [elsewhere an epithet of Gilgames as sun-god] of Gan-mes [the hero of fecundity, cf. ukkin-mes 'senator'],' which is thus, like Engidu, a secondary theophorous name.

Professor Breasted gave a brief account of the inception and publication of his book 'Ancient Times: A History of the Early

World,' which, altho a high-school textbook, contains fully 220 pages devoted to Oriental history.

The Corresponding Secretary then presented the following paper in abstract, the author being unable to be present at the sessions:

MISS M. H. GAECKLER, of Edinboro, Pa.: A study of the aorist, imperfect, and perfect tenses in the Rig-Veda, early and late.

In the earliest period of the Rig-Veda, the aorist and imperfect are used without difference; the aorist expresses duration of time, or is used historically or in narration, in conjunction with and equivalent to the imperfect and the perfect. But in the latest Rig-Veda period only the imperfect and perfect tenses are used narratively, and the aorist has the value that it has in the later classical Skt.—that is, it expresses an event which happened in the immediate past. Especially in the early period, all the past tenses may be used for the present also, since it is impossible to establish a definite boundary between what is and what has been.

The Society then proceeded to the consideration of items of business postponed from previous sessions and those appointed for this session.

MIDDLE WEST BRANCH OF THE SOCIETY

It was reported that, in pursuance of action taken by the Directors at the meeting in Washington in 1916, steps had been taken toward the formation of a Middle West Branch of the Society, and that a meeting of Orientalists of the West had been held at Chicago on January 27th, 1917 (see the report of the Proceedings printed in the JOURNAL, 36. 423-425). Professor Jastrow reported that the Directors recommended the adoption of four additional articles of the By-Laws, to provide for the organization of branches of the Society. The first three of the articles submitted were adopted without a single dissenting vote, as follows:

ARTICLE X. To provide for scientific meetings of groups of members living at too great a distance to attend the annual sessions of the Society, branches may be organized with the approval of the Directors. The details of organization are to be left to those forming a branch thus authorized, subject to formal ratification by the Directors.

ARTICLE XI. Upon the formation of a branch, the officers chosen shall have the right to propose for corporate membership in the Society such persons as may seem eligible to them, and, pending ratification according

to Article IV of the Constitution, these candidates shall receive the Journal and all notices issued by the Society.

ARTICLE XII. The annual fee of the members of a branch shall be collected by the Treasurer of the Society in the usual manner, and in order to defray the current expenses of a branch the Directors shall authorize the Treasurer of the Society to forward from time to time to the duly authorized officer of the branch such sums as may seem proper to the Treasurer. The accounts of the Treasurer of the branch shall be audited annually and a statement of the audit shall be sent to the Treasurer of the Society to be included in his annual report.

After discussion of the final article to provide for representation of a branch on the Board of Directors, it was voted to refer it back to the Directors for further consideration.

REPORT OF THE EDITORS OF THE JOURNAL

The report of the Editors of the Journal was presented by Professor Montgomery, as follows:

The Editors beg to report the completion of Volume 36 of the Journal, consisting of 460 pages, in the usual four parts, the first of which was edited by their very esteemed predecessor, Professor Torrey. The volume, which was to have been dedicated to Dr. William Hayes Ward in commemoration of his 80th birthday, now bears his name on the title-page *In Memoriam*.

The size of the volume has not been decreased, altho the cost of printing is considerably greater here than abroad and the price of paper is rapidly rising. We suggest that contributors practise the greatest economy in the use of unusual types and assist in keeping down the expense by the most careful preparation of their copy.

In addition to the longer papers, which must constitute the permanent value of the Journal, we desire to encourage the contribution of Brief Notes, on subjects of fresh and original interest, which will probably be read by a wider circle of our constituency than the long papers. A department of Personalalia, which we have established, will also serve for the exchange of personal news in the Oriental world.

We expect hereafter to publish the Journal in five parts, and at the same time to make its year coincide with the calendar year. To accomplish this, volume 37 (for 1917) will appear in four parts, in May, July, October, and December. Volume 38 (for 1918) will appear in February, April, June, October, and December. It will be noticed that the last digit of the volume number thus becomes the same as that of the year of publication—a coincidence of decided practical value.

Arrangements are being completed with the Yale University Press for that corporation to act as our publisher. It will handle all the business of circulation and sale of copies, and we shall have the advantage of having the Journal included in its trade-lists.

In conclusion we welcome the increase of the scholarly assets of the Society furnished by the recently organized Middle West Branch, the profits of which are already accruing to the Journal.

ELECTION OF MEMBERS

The following persons, recommended by the Directors, were elected members of the Society:

HONORARY MEMBER

Mr. Leonard W. King

CORPORATE MEMBERS

Mr. T. George Allen,	Mrs. Fletcher Ladd,
Mr. Lamont Barbour,	Prof. G. Landstrom,
Mr. Carl W. Bishop,	Dr. Kenneth S. Latourette,
Mr. Maurice Block,	Rabbi Morris S. Lazaron,
Prof. Leonard Bloomfield,	Mr. Gerson B. Levi,
Mr. Gustav von Brauchitsch,	Rabbi Felix A. Levy,
Miss Caroline May Breyfogle,	Prof. Albert Howe Lybyer,
Rev. Chas. D. Brokenshire,	Mr. Walter A. Maier,
Mr. Ludlow S. Bull,	Mr. Shiphy E. Malouf,
Prof. Moses Buttenwieser,	Rabbi Louis L. Mann,
Mr. E. H. Byrne,	Mr. S. H. Markowitz,
Mr. Augustus Stiles Carrier,	Mr. John Martin,
Mr. Arthur H. Clark,	Rev. John A. Maynard,
Rabbi Samuel S. Cohen,	Mr. Frederick McCormick,
Dr. Ananda K. Coomaraswamy,	Mr. J. F. McLaughlin,
Mr. Edwin Sanford Crandon,	Mr. Theophile J. Meek,
Hon. Alexander DelMar,	Mr. Walter Miller,
Mr. Gotthard Deutsch,	Hon. William Phillips,
Dr. George S. Duncan,	Rabbi Julius J. Price,
Mr. William F. Edgerton,	Prof. Eduard Prokosch,
Mr. Granville D. Edwards,	Mr. Charles Lynn Pyatt,
Mr. Albert W. Ellis,	Mr. George H. Richardson,
Mr. Eugene Fair,	Dr. J. G. Rosengarten,
Rev. Dr. Hughell E. W. Fosbroke,	Dr. Moses Seidel,
Prof. John Fryer,	Mr. O. R. Sellers,
Mr. Carl Gaenssle,	Mr. H. B. Sharman,
Mr. Alexander B. Galt,	Mr. Joseph Stolz,
Rev. Raymond F. Gavin,	Prof. Herbert Cushing Tolman,
Rev. A. H. Godbey,	Rev. Samuel W. Wase,
Mr. Edward A. Henry,	Mr. Thomas Wearing,
Mr. Emil G. Hirsch,	Mr. Herbert L. Willett,
Dr. Stanley K. Hornbeck,	Dr. Henry A. Wolfson,
Mr. Fred T. Kelly,	Prof. William H. Wood,
Mr. J. L. Kingsbury,	Miss Marguerite Woodward,
Dr. K. Kohler,	Dr. J. E. Wrench,
Mr. George S. S. Kukhi,	Mr. J. Hubert Zimmerman.

It was announst for the Directors that the next annual meeting would be held at New Haven on Tuesday, Wednesday, and Thursday of Easter Week, April 2d, 3d, and 4th, 1918.

The Corresponding Secretary reported that the Directors had considered the possibility of obtaining the removal of the restriction as to place of meeting, and that they recommended, after careful investigation and report on the part of a special committee, the adoption of a resolution to present the following petition to the General Court of the State of Massachusetts:

To the Honorable,

The General Court of the State of Massachusetts:

The AMERICAN ORIENTAL SOCIETY, a corporation incorporated by the laws of Massachusetts, hereby respectfully petitions your honorable body to enact an amendment to the act of the year 1891, entitled 'An Act to authorize the American Oriental Society to hold its meetings without the Commonwealth' (Stat. Mass. 1891, C 335), by striking out of Section 1 of the aforesaid Act the words: '*provided, however, that said society shall meet within this Commonwealth at least once in three years.*'

The purpose of the proposed amendment is to afford the Society greater liberty in the choice of places of meeting. While the Society would, in case the petition is granted, expect to continue to meet occasionally in Massachusetts, nevertheless present-day conditions, and the rapid growth of the Society, render it essential to its welfare and the furtherance of its objects that it be allowed this greater liberty. Complete freedom of action in regard to place of meeting is allowed to the American Folk-Lore Society, under a provision of its charter (Stat. Mass. 1893, C 389), which permits it to hold meetings without the Commonwealth, absolutely. The American Oriental Society is therefore encouraged to hope that your honorable body will see fit to accord the same privilege to this Society.

Respectfully submitted,

_____, *President,*

_____, *Recording Secretary,*

_____, *Corresponding Secretary,*

for the American Oriental Society.

It was unanimously voted, 26 members being present, to present this petition to the General Court of the State of Massachusetts.

Professor Jastrow, as chairman of a committee of the Directors to consider a number of projects suggested for a proposed American Oriental Series, reported that the Directors asked the Society to give its endorsement to the three projects considered and approved by the committee, so that steps could be taken for their publication if funds were obtained for the purpose. The projects recommended for endorsement were:

1. A Tagalog Grammar, by Dr. Frank R. Blake, which is ready for the press.
2. A Pāli Dictionary, which is urgently needed and would form a most valuable contribution to Indology.
3. A new Assyrian Dictionary to supplement those hitherto published.

It was voted to give the approval of the Society to the three projects of publication.

On motion, the following resolution was unanimously adopted:

The American Oriental Society desires to express its thanks to the American Academy of Arts and Sciences for welcoming the Society to its House, to the Harvard Club and the College Club for extending courtesies to the members, and to the Committee of Arrangements and the local members for the thoughtful and generous provision made for the comfort and entertainment of those attending the meeting.

The President then announced the following appointments:

Committee of Arrangements for 1918: Professors Clay, Hopkins, and F. W. Williams, and the Corresponding Secretary.

Committee on Nominations: Professors Schmidt, R. G. Kent, and Worrell.

Auditors: Professor F. W. Williams and Professor Hopkins.

The Corresponding Secretary then read abstracts of three papers, as follows:

Professor A. EMBER, of Johns Hopkins University: (a) New Semito-Egyptian words; (b) Some African words in Old Egyptian.

(a) *Ḥnm* 'ram' (preserved only in the name of the god Khnum): Arab. *ḥamal* 'lamb, ram'; *ḥpā* 'thigh'; Arab. *ḥabīḍ* 'thigh'; *sm* 'plant' (Pyramid Texts): Assy. *šammu* 'plant'; *tpnn* 'cumin': Assy. *tappinu* 'cumin' (?); *ḥāb* 'slay': Arab. *ḥadaba* 'slay'; *mnt* 'the god Montl': Heb. *mēlek* 'king'; *mnw* 'Min': Arab. *Manāt*; etc.

(b) Eg. *nfr* 'be good, beautiful': Bedanye *enfer* 'be sweet'; Eg. *hḳ* 'husband': Bedanye *hij* 'husband'; Eg. *mr* 'chisel' (preserved only in the sign value of the chisel): Amharic *mārō* 'chisel'; Eg. *ḏng* 'dwarf': Amharic *denk* 'dwarf'; Eg. *fnḏ* 'nose': Amharic *afenḏā* 'nose'; etc.

Professor P. HAUPT, of Johns Hopkins University: (a) The last words from the cross; (b) The Babylonian origin of the term 'naphtha.'

(a) The first 2 lines of Ps. 22 are corrupt; instead of *eli, eli* we must read *elē-eli*, 'to my God,' and this should stand at the beginning of the second line, while 'my God' at the beginning of the second line should be prefix to the first.

(b) The term 'naphtha' must be derived from Assy. *nabāṣu* (or *napāṣu*) 'to shine.'

- Professor J. A. MONTGOMERY, of the University of Pennsylvania: (a) The Babylonian *nishu*, 'oath,' in the Hadad Inscription, lines 28, 29; (b) Last lines of the South-Arabic text, Glaser 282.

(b) Interpretation on the basis of PTH = 'law' and SM' = 'witness' (see Hommel, *Südarabische Chrestomathie*, p. 115).

The Society adjourned at 5:47 P. M., to meet for a few minutes in the evening at the call of the President.

SPECIAL SESSION

A brief session was held at the Hotel Brunswick, on Wednesday evening, in the course of the annual dinner, beginning at 8:43 P. M., with the President in the chair.

The Corresponding Secretary reported that the Directors submitted the following revised form of the proposed Article XIII of the By-laws, with their recommendation for its adoption:

ARTICLE XIII. The President and Secretary of any branch duly authorized as provided under Article X shall have the right to sit *ex officio* with the Directors at their meetings and to take part in their deliberations.

On motion, this addition to the By-laws was adopted by a unanimous vote, and the formal session for the consideration of business was adjourned at 8:45 P. M.

The following communications were presented by title:

Dr. W. F. ALBRIGHT: Mesopotamian vine-goddesses.

Professor L. C. BARRET: An objection to the group-theory of religion.

Professor C. E. CONANT: Analogic changes in Indonesian numerals.

Professor K. FULLERTON: Extracts from a Kodak journal in Syria and Palestine, 1914.

Professor P. HAUPT: Semites, Hebrews, Israelites, Jews.

Professor E. W. HOPKINS: Indra and other gods of war and fertility combined.

Professor E. W. HOPKINS: The origin of the ablative case.

ANCIENT BABYLONIAN EXPRESSIONS OF THE RELIGIOUS SPIRIT

THE PRESIDENTIAL ADDRESS FOR 1917*

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There is no more fascinating field of study than the attempts of men to come into relationship with the unseen powers of the universe. These attempts vary with intellectual development all the way from the materialistic attempts of the savage to the spiritual and ethical conceptions of the highest religious systems. The most interesting phases of religious expression are those found at the two extremes of the evolutionary curve. Naturally no early system of religious thought can equal in interest that which stands at the verge of present knowledge and seeks to interpret the eternal mystery to the needs of present-day life. Next in interest, however, to this is the study of religious beginnings. There is about them something of the freshness of childhood, and we delight in following their thought as we delight in the expressions of children. It is because the Babylonian expressions of the religious spirit are expressions from the childhood of our race, that they become fascinating and important. It is true that they do not belong to the earliest childhood—they do not come from the period of savage life—but they express the religious conceptions, emotions, and aspirations of a great nation, composed by the amalgamation of two great races, just after the threshold between savage and civilized life had been passed. Ancient Babylonia had, in the whole course of its history, no great prophet to transform its religion. So far as we know no one attempted to do even what Amenophis IV tried unsuccessfully to do in Egypt. No prophet or reformer, like Amos, or Zarathushtra, or Gautama, or Vardhamāna, or Lao-tse, transformed religious thought and created in Babylonia a positive religion. No philosophers like the authors of the Upanishads and the projectors of the later systems of India, or like Socrates

* Delivered before the American Oriental Society in Boston, April 10, 1917.

and Plato, subordinated the comparatively primitive conceptions of the universe to a more intellectual system of thought, and no great teacher like Confucius made these conceptions subordinate to an ethical system. Ethical conceptions were not lacking. For example in the *Maqlu* incantation-texts (2.81-84) we come upon this protestation of lofty conduct—a passage that reveals the Babylonian ideal of personal life:—

Those who were dying, I made to live;
Those who were cursed, I guided aright;
Those who were perishing, I rehabilitated;
Those who were weak, I strengthened.

This bit of ethical perception is, however, buried in a mass of ritual intended for exorcism. The compiler of the text betrays no conception that it was more important than the statements about spooks and vampires and the charmed words for their control by which it is surrounded.

If then, we would make a fair estimate of ancient Babylonian expressions of the religious spirit, we must compare them not with the sayings of Hebrew prophets, or the Gāthās of Zoroaster, or the utterances of India's philosophers and reformers, or the teachings of Lao-tse or Confucius, but with the religious utterances of Egypt, of Vedic India, and of China before the rise of her sages.

In Chinese literature some primitive religious expression has survived in the Shu King, or ancient book of history, the Shih King, or book of poetry, and the Li Ki, or book of rites. The revelation made by these books is reinforced by the survival in Chinese life of the belief in spirits, and the perpetuation in the state religion of an ancient ritual that finds many parallels in Babylonian ceremonial.

The Babylonian liturgies afford us glimpses of stately ceremonies on which great reliance was placed in maintaining friendly relations with the supernatural powers, and the one fact that stands out most prominently is that to the ancient Babylonians as to the Chinese the universe was peopled with myriads of invisible spirits. In Babylonia, China, and Egypt charms against spirits, exorcisms, and magic abounded. As yet, however, no Babylonian parallels have been discovered to parts of the Chinese Shih King, or book of poetry, or to the

love-poetry of the ancient Egyptians. The Babylonians shared with other peoples the tender passion. From Egypt love poems have come in which one finds such stanzas as this:—

New wine it is to hear thy voice;
I live for hearing it.
To see thee with each look,
Is better than eating and drinking.¹

Similarly in the pre-Confucian Shih King, or Book of Odes, there come to us from China, among poems that have more or less connection with the ritual, stanzas like this:—

If you will love me dear, my lord,
I'll pick up my skirts and cross the ford;
But if from your heart you turn me out . . .
Well you're not the only man about,
You silly, silly, silliest lout!²

If, however, any of the ancient Babylonians committed such sentiments as these to a clay tablet, it has not been discovered. If one of them ever directed a sonnet to his lady's eyebrow, he would seem to have been of too frugal a turn of mind to waste good clay in giving it permanence. Some few chronicles have come down to us from early times, but for the rest the literature consists of endless commercial transactions and religious epics, hymns, liturgies, and incantations.

The poetry of the Sumerians of Babylonia was in form of the simplest sort. Most of it consists of lines of similar length which make rude parallelisms. At times the length of these lines is very unequal. In some of the compositions a rhythm is apparent as one passes from line to line, but at times this also fails us. Sometimes as in some of the Hebrew Psalms a refrain is brought in at intervals, but such occurrences are not frequent. In parts of some of the penitential psalms a refrain occurs in every alternate line, as in Psalm 136 of the Psalter. These points may be briefly illustrated by quotations from a hymn to the mother goddess translated by Radau in the *Hilprecht Anniversary Volume*. The following passage illustrates both the rhythm and the refrain:—

¹ Cf. G. A. Barton, *Archaeology and the Bible*, Philadelphia, 1916, p. 416.

² From H. A. Giles, *History of Chinese Literature*, New York, 1901, p. 14.

To the king's holy foundation || with uplifted head I will go;
 To the foundation of the goddess || with uplifted head I will go;
 To the foundation of Idin-Dagan || with uplifted head I will go;
 For Dagal-Ushumgal-Anna || the bedchamber I will prepare.

Although there is in the Babylonian religious poetry nothing as beautiful as some of the hymns of the Veda, many passages have a dignified beauty of their own. Thus in the hymn just quoted we read:—

The abode of the holy one I will sanctify;
 Songs of praise I will sing to her;
 The glory of my princess in heaven and upon earth
 Aloud I will proclaim
 Unto my holy goddess;
 Before her I will rejoice:
 "Princess exalted to the heavens,
 Goddess, thou art sublime!
 Maiden goddess, thee must one reverence!
 Princess exalted to the heavens,
 Like Anu thou art sublime."

One who approaches the study of the ancient poetry of the Babylonians is met by an initial difficulty. The interpretation of the Sumerian language is still in its initial stages. The late Professor William James once said that he would not be so bold as to say that he knew what the teaching of Hegel was; that, if one thought he had an idea of what the great idealist meant, when he announced it, some ardent disciple of the German master would arise to say that that was all wrong; Hegel never meant that, but something quite different. It is still somewhat thus in the interpretation of Sumerian texts. We are never sure that we have caught the real meaning of a unilingual Sumerian text until its interpretation is established at the mouth of two or three witnesses; and sometimes the testimony of the witnesses is quite divergent. Nevertheless we do know enough of the form and content of ancient Babylonian religious expression, even in its Sumerian dress, to enable us to appraise its value and to compare it with other national expressions of the religious consciousness in the ancient Oriental world. If, however, I cite in the remarks that follow examples from unpublished texts that I alone have as yet had opportunity to study, you are duly warned to take the translations *cum grano salis* until others have had opportunity to study them also.

The earliest extant religious text from Babylonia—a text from the dynasty of Agade—is in many respects an excellent example of the whole. This is the text which I had the honor of bringing to the notice of this Society three years ago, and it will, I hope, be given to scholars within the next year in a volume now in preparation. It is an incantation. Those who composed it believed the air as full of demons as the Chinese do. A portion of the text consists of magic words which were believed to have power to ward off these spirits. Some of these words are:—

The light of the city—to the light of the city
Fly not!
The darkness of the city—to the darkness of the city
Fly not!
The people of the city—to the people of the city
Fly not!

(Col. x.)

The haunting terror expressed here is characteristic of much of ancient Babylonian life. A later text describes these spirits as follows:—

Destructive storms and evil winds are they,
An evil blast that heraldeth the baneful storm,
An evil blast forerunner of the baneful storm.
They are mighty children, mighty
Heralds of Pestilence,
Throne-bearers of Ninkigal (goddess of the Underworld)
They are the flood which rusheth through the land.
(Thompson, *Devils*, 1. 63.)

Another text speaks of them thus:—

From the Underworld have they gone forth:
.....
The evil spirit that in the desert smiteth the living man,
The evil demon that like a cloak enshroudeth the man,
The evil ghost, the evil demon that seize upon the body,
The hag-demon and ghoul that smite the body with sickness,
The phantom of night that in the desert roameth abroad,
Unto the side of the wanderer have drawn nigh,
Casting a woful fever upon his body.

(*Ibid.*, p. 7.)

From the haunting terror of this fear the Babylonians, like others, found from the earliest times some refuge in their belief

in favoring gods. Thus the cylinder from the Dynasty of Agade already cited makes the following appeal:—

O lord of darkness, protect man!
 O lord of light, protect man!
 O lord of the feast, protect man!
 O lord of the sanctuary, protect man!
 The grain for thy animals raise up!
 O god, be favorable to man!

(Col. iii.)

The faith that helpful spirits will protect is, however, universal among men and is the basis of all religion.

Even when friendly relations with such spirits had been established, misfortune and trouble still came. It was consequently supposed that the friendly spirits had been offended by some misdeed of the sufferer. Thus arose the so-called penitential psalms, which have been known and studied longer than any other kind of Babylonian religious literature. These psalms abound in such cries as that in a prayer to Ishtar³:—

O lady, in sadness of heart I raise to thee my piteous cry, 'How long!'
 O lady, to thy servant speak pardon, let thy heart be appeased!
 To thy servant who suffers pain, grant favor!
 Turn thy gaze upon him, receive his entreaty!
 To thy servant with whom thou art angry, be favorable!
 O lady, my hands are bound, I turn to thee!
 For the sake of the exalted warrior, Shamash, thy beloved husband, take
 away my bonds!
 Through a long life let me walk before thee!

Such complaints as this have often been compared to some of the plaintive cries in the Hebrew Psalter. Nothing is known to me in the hymns of Egypt or in the Veda that possesses this penitential quality in like degree, although a few of the Vedic hymns to Varuna closely approach it. The conception of the spirits that prevailed in China rendered such expression unthinkable. Closely connected with the penitential literature are the dirges. Those that have come down to us are dirges for Tammuz, the god of vegetation, whose death was bewailed each year. Some of these have been made known, at least to scholars, through the translations of Professor Zimmern and others. There is in them much plaintive iteration, as, for example, in that published in *CT* 15. 18:—

³ From Haupt, *ASKT* 122.

The lord of vegetation no longer lives;
The lord of vegetation no longer lives [repeated six times; then:]
. . . my husband no longer lives;
My god Damu no longer lives;
The god Ama-sunumgalanna no longer lives;
The lord of Arallu (Sheol) no longer lives;
The lord of Dur-gurgurri no longer lives;
The bright lord Tammuz no longer lives;
The lord of the dwelling no longer lives;
The spouse of the lady of heaven no longer lives;
The lord of Eturra no longer lives;
The brother of the mother of the vine no longer lives.

In a similar vein the dirge continues through many lines. It is, doubtless, a sample of the iteration with which human dead were bewailed.

From Egypt, where similar beliefs were held concerning the death and resurrection of Osiris, no such dirges have, so far as I know, come down to us. The Egyptian belief in the life beyond the grave led them to lay the emphasis on the resurrection of Osiris, a resurrection in which, in course of time, it was believed that all Egyptians might share, rather than upon his death. In Egyptian texts relating to Osiris there is accordingly a note of triumph and praise. In Babylonia, where no such vivid hope of a bright after-life was entertained, the emphasis was rather on the pathos of parting; hence such dirges as that quoted.

The heart of all religious worship is prayer, and from Babylonia not a few prayers have come to us. In these prayers the Babylonian deities are conceived in quite an anthropomorphic fashion. The prayers begin with words of praise which set forth in an impressive way the majesty and glory of the god. Such recognition of a deity's greatness predisposed him to be gracious to a suppliant that held such accurate views of the divine majesty. While this motive doubtless was present in the minds of those who composed the prayers, there was combined with it another motive. If a worshiper is to gain from the experience of prayer the psychological effect upon himself that is desirable, he must have a sense of the majesty, awe, and mystery of the divine being whom he approaches. In Egyptian temples—and the same is true (*mutatis mutandis*) of the temples of many other peoples—one approached the temple through avenues of

impressive sphinxes, he entered it through a majestic pylon, he approached the holy of holies through awe-inspiring courts and shadowy hypostyle halls. The approach suggested the majesty of the divinity that dwelt within. The suppliant was thrown by his approach into a devout frame of mind, so that he uttered his prayer in due humility and awe. Our Calvinistic forefathers, who worshiped in plain meeting-houses, accomplished the same psychological result by the use of majestic words, addressing God as the All-wise, Omnipotent Ruler, who dwells in the light that no man can approach unto, who is above cherubim and seraphim, who, himself holy, reads the inmost thought of sinful man, etc. In other words, by the employment of majestic phrases they created a psychological avenue of sphinxes and pylons through which the mind of the suppliant should pass, that it might be thrown into the proper spirit of prayer. In Babylonia both methods of creating the proper spirit were employed. The Babylonian temples, though apparently as a rule not so beautiful as the Egyptian temples of the days of the empire, were not lacking in the qualities that suggested to the mind of the worshiper the majesty of the indwelling divinity. But, as though this were not enough, their prayers, like those of the Puritans, began with expressions of the majesty of the god, which, couched in sonorous language, formed a psychological pylon as well. As an example we may take a prayer to Nergal published by L. W. King in his *Magic* (no. 27)⁴:—

O mighty, exalted lord, first-born of Nunamir,
 Prince of the Anunnaki, lord of battle,
 Offspring of Kutushar, the mighty queen,
 O Nergal, mighty one of the gods, darling of Ninmenna,
 Thou art in the brilliant heavens, lofty is thy station,
 Thou art great in the Under-world, thou hast no rival,
 With Ea among all the gods is thy counsel inscribed,
 With Sin in the heavens thou searchest through all things,
 Enlil thy father has granted thee the black-headed race, all living creatures,
 The cattle of the field, the animals, for thy hand to rule.

After this impressive approach comes the prayer:—

⁴Translated also in Böllenrucher's *Gebete und Hymnen an Nergal*, Leipzig, 1904, p. 14 f. The above translation is independently made.

I, so and so, the son of so and so, am thy servant;
The wrath of a god and a goddess rests upon me;
Uprooting and destruction dwell in my house;
Calling without answer prostrates me.
Because thou savest, O lord, I turn to thy divinity!
Because thou art compassionate, I seek thee!
Because thou appearest compassionate, I look to thee!
Because thou art merciful, I stand before thee!
Really look upon me! Hearken to my cry!

This is but one example out of many that might be given.

The gods to whom such appeals were made were of complex origin. The tribal deity of an ancient clan was often supposed to express itself through many natural phenomena and to do whatever needed to be done for the tribe. The mingling of various tribes in the melting-pot of the lower Mesopotamian plain had created polytheism and led to some distribution of functions to different gods, but many of the deities even then retained their complex character. As time passed certain men were deified. It is well known that Naram-Sin, Dungi, Bur-Sin, and Gimil-Sin were deified while still living. This process seems to have gone on in the case of other men. In the University Museum in Philadelphia there is a ritual to Ur-Engur, recently published by Dr. Langdon. In another text, which I have had the privilege of studying (an incantation), Entemena appears as a deity under the name Entemen. The passage runs:—

With the god Entemen, the mighty prince, are thy first-fruits,
His grain is the brilliance of the broad land;
With weighty kernels its heads grow.
Like a gardener with fruit he comes,
to his people who are disobedient.
The mountain of Entemen eagerly (?) he ascends;
to the houses of men bowed down he comes;
The houses my protector establishes, he makes bright.

Further on in the next column a broken line runs:—

Favorable is Entemen. . . .

While the Babylonian deities were complex in character, after some of them had been identified with the sun and moon, the hymns addressed to them tend to attribute to these deities the characteristics of their respective heavenly bodies. Much of the

imagery by which the majesty of Utu or Shamash, and of Nannar, En-zu, or Sin is depicted is borrowed from the appearance, the course, and the functions of these orbs of light. The deeds of Adda, too, the storm-god, are portrayed in descriptions of storms. It thus comes about that in some Babylonian hymns we find descriptions of nature, or certain phases of nature. As an example of these we may take the hymn to the moon-god, Nannar, published in *CT* 15. 16, 17:—

O brilliant bark of the heavens, ruler in thy own right,

 Thou standest, thou standest
 Before thy father Enlil. Thou art ruler,
 Father Nannar; thou art ruler, thou art guide.
 O bark, when standing in the midst of heaven, thou art ruler,
 Father Nannar, thou ridest to the brilliant temple.
 Father Nannar, when like a ship thou goest in the midst of the deep,
 Thou goest, thou goest, thou goest,
 Thou goest, thou shinest anew, thou goest,
 Thou shinest anew, thou livest again, thou goest.

In these lines the sky is conceived as an ocean across which the moon sails as a ship sails across the sea. The Babylonians, like each of us, had watched the clouds flit across the moon's face, when it seemed as though the moon, not the clouds, were moving. If a cloud was especially thick, the moon disappeared for a time. All this is described in the words:—

Thou goest, thou goest, thou goest,
 Thou goest, thou shinest anew, thou goest.

The moon waxes and wanes. It seems to die and then is born again. This is depicted in the line:—

Thou shinest anew, thou livest again, thou goest.

The earlier of the moon's phases are alluded to in a later line:—

When thy father looketh on thee with joy, he commandeth thy waxing.

Similarly the destructive storms which sometimes sweep over Babylonia are graphically described in some of the hymns to Enlil. Apparently the original Babylonian conception attributed these storms to Enlil, the lord of spirits. At all events at a later period the effects of the word of Enlil are described under the figure of a storm. A passage from Reisner's *Sumerische Hymnen*, no. 7, will serve as an illustration.

The word of the lord, his word,
 The word of the lord works disaster.
 The word of Gula, her word,
 The word of Enlil, the hero, lord of the great city,
 Of him who comes from Meslam, great warrior with the dagger,
 The word on high makes the heavens howl,
 The word below makes the earth shudder,
 The word brings destruction to the Anunnaki;
 No seer receives it; no enchanter receives it.
 It is an on-rushing whirlwind before which none can stand;
 It makes the heavens roar, it makes the earth tremble.
 The bond between mother and child it breaks,
 It makes the luxuriant reeds to tremble, it shatters them.
 The wheat-harvest it takes as spoil,
 The on-rushing waters obliterate divisions,
 It is a flood which breaks the dyke.
 It rends asunder huge trees,
 With a roar they are hurled to the ground.
 When the hero, the lord of the great city makes a thunder-storm, no eye
 beholds it.

No one can read descriptions of Babylonian thunderstorms, such, for example, as that by Dr. Peters in his *Nippur*, I. 258-259, without realizing how true to experience this old Babylonian portrayal is. The passage not only gives us a vigorous description of a natural phenomenon, but reveals a point of view familiar to readers of the Old Testament. Just as the Hebrews thought thunder the 'voice of Yahweh,' so the Babylonians regarded it as the 'word' or 'utterance' of Enlil.

In one of the hymns in which the thunder of Enlil is described there is revealed an appreciation of a very different side of nature. This is the hymn published in *CT* 15.15, 16. Lines 13 and 14 read:—

The lightning of thy thunder shatters the head of the great mountain, O
 father Enlil;
 Thy thunder fills the great mother Ninlil with fear!

This touch reveals the masculine Babylonian bully of a husband blustering about and his wife crouching in fear. Possibly it is the full-grown Babylonian boy making his sister jump by the startling and incongruous noises which he suddenly produces. In whatever way one looks at it, the passage is a touch of nature that reveals the kinship of the whole world.

When all is said, however, it must be confessed that the appreciation of nature expressed in the Babylonian hymns does not equal that manifested in the Vedic hymns, either in depth of insight or in beauty of expression. There is, for example, nothing to compare in beauty with Hymn 50 of the first book of the Rig-Veda. (I quote from Dr. John Muir's translation.)

By lustrous heralds led on high,
The fire sun ascends the sky;
His glory draweth every eye.

The stars which gleamed throughout the night,
Now scared, like thieves slink fast away,
Quenched by the splendor of thy ray.

Thy beams to men thy presence show;
Like blazing fires they seem to glow.

Conspicuous, rapid, source of light,
Thou makest all the welkin bright.

In sight of gods and mortal eyes,
In sight of heaven thou scalest the skies.

This Vedic poet embraced the whole scope of the sky in his view; Babylonian poets as a rule limit their view to one aspect closely connected with the god.

The Babylonians, as already noted, developed no such belief in a future life as was entertained by the ancient Egyptians. Perhaps at the beginning the conceptions of the two peoples concerning it were nearly parallel, but the Osiris myth gave the Egyptians a belief in a bright and happy immortality for that god—an immortality that was then believed to be shared by deceased kings and finally by all the people. In Babylonia the conception of the conditions of life after death are clearly set forth in the poem which describes Ishtar's descent to the lower world,

Where dust is their food, their sustenance, clay,
Light they do not see, in darkness they dwell.

The wistful longing of the Babylonians for a more cheerful immortality is touchingly revealed in the Gilgamesh epic through the attempt of Gilgamesh to attain a reunion with his friend Engidu, as well as in the closing lines of Ishtar's Descent. Both texts are well known. All such attempts seemed to the Baby-

lonians of no avail. Their attitude is summed up in two lines in the twelfth tablet of the epic:—

I will sit all day and weep!
I will sit all day and weep!

The well known myth of Adapa shows that, to the Babylonian mind, a cheerful immortality had been denied them by the gods through jealousy.

Mention of the Gilgamesh epic is a reminder that one important form of expression of the Babylonian religious spirit has not been mentioned: I refer to the epic. As India had her Mahābhārata and Rāmāyaṇa and Greece her Iliad and Odyssey, so Babylonia had her Gilgamesh epic and her epics of creation. The Gilgamesh epic is of a miscellaneous character. It contains both a patriotic and a mythological element. The strands of the two are woven together in a fashion as delightfully confusing as one need desire in a document coming from such an early date.

The Babylonian genius delighted especially in endeavoring to trace origins, especially the origin of the gods, the world, man, and the institutions of settled, civilized life. The best known of these productions is the epic of Creation, a part of which was discovered by George Smith more than forty years ago—an epic divided into seven tablets or cantos. So much has been written of it, and it is so often quoted that it may be supposed to be familiar to all members of the Oriental Society, even those that are not professional scholars. The older poem on the origin of civilization, found in 1882 by Rassam at Abu Habba and afterward published by Dr. T. G. Pinches, is also well known.⁵ Still another creation-poem ascribed the creation to Ashur.⁶ This, of course, had its origin in Assyria and circulated there. Three years ago Dr. Poebel published an early poem on the creation found among the tablets from Nippur—a briefer account than the later ones, as befits a poem written before 2000 B. C.⁷ Still more recently Dr. Langdon published another text which

⁵ See L. W. King, *Seven Tablets of Creation*, London, 1902; R. W. Rogers, *Cuneiform Parallels to the Old Testament*, New York, 1912, p. 3 ff. and 47 ff.; G. A. Barton, *Archaeology and the Bible*, p. 255 ff.

⁶ See King, *op. cit.* l. 197 ff.; Rogers, *op. cit.* p. 54 ff.

⁷ See A. Poebel, *Historical Texts*, Philadelphia, 1914, p. 9 ff.; Barton, *op. cit.* p. 278 ff.

portrays the origin of a city and the beginning of agriculture. Dr. Langdon saw in the text an account of the flood and the fall of man, which other scholars are unable to find in it, but the discussion to which this difference of interpretation has given rise has served to make scholars familiar with the existence of this interesting text.⁸

Perhaps I may be pardoned, if, in order to illustrate the kind of religious expression found in these poems and epics on crea-

OVERSE

- The mountain of heaven and earth
 The assembly of heaven, the great gods, entered. Afterwards
 Because Ashnan¹⁰ had not come forth, they conversed together.
 The land Tikku had not created;
 5 For Tikku a temple platform had not been filled in,
 A lofty dwelling had not been built,
 The arable land was without any seed;
 A well or a canal(?) had not been dug;
 Horses(?) and cattle had not been brought forth,
 10 So that Ashnan could shepherd a corral;
 The Anunna, the great gods, had made no plan;
 There was no šes-grain of thirtyfold;
 There was no šes-grain of fiftyfold;
 Small grain, mountain grain, and large asal-grain there was not;
 15 A possession and house there was not;
 Tikku had neither entered a gate nor gone out;
 Together with Nintu the lord had not brought forth men.
 The god Ug as leader came; as leader he came forth to plan;
 Mankind he planned; many men were brought forth.
 20 Food and sleep he planned for them;
 Clothing and dwellings he did not plan for them.
 The people with rushes and rope came,

⁸ See S. Langdon, *The Sumerian Epic of Paradise, the Flood and the Fall of Man*, Philadelphia, 1915; Prince, *JAOS* 36. 90-114, 269-273; Sayce, *Expository Times*, May, 1916; Jastrow, *JAOS* 36. 122-135 and *AJSL* 33. 91 ff.; Barton, *op. cit.* p. 283 ff. and Langdon, *JAOS* 36. 140-145.

⁹ The tablet has since been catalogued as no. 14005. It will be published in a forthcoming volume, *Miscellaneous Religious Texts*.

¹⁰ A god of vegetation; Brünnow's *List*, 7484.

tion, I quote from an unpublished tablet a poetical account of the creation of man and the beginnings of civilization which I have recently had the good fortune to discover among uncatalogued tablets from Nippur in the University Museum in Philadelphia.⁹ It was, as a colophon states, a tablet of sixty lines, and though somewhat broken at one end, not more than five whole lines are lost, though parts of several are fragmentary. The language of the tablet is Sumerian. It reads as follows:—

OBVERSE

ḥar-sag-an-ki-bi-da-ge
erim-an-ni dingir-dingir a-nun-na im-tur-ne-eš a-ba

mu ^dezinu nu-in-da-má-da ub-še-da-an-dug-ga

kalam-mu ^dtik-ku nu-in-da-an-dim-ma-aš

5 *^dtik-ku-ra temen nu-mu-na-sig-ga-aš*

tuš-up-pi-a ra¹¹-ub-šar-ra

ar nu-mê-a-am numun šar-ra

pu-e-x¹²-a-bi nu-in-tu-ud

anše-ra¹³ bir-eš-bi nu-in-tu-ud

10 *mu ^dezinu utul-umuna-bi apin*

^da-nun-na dingir gal-gal e-ne nu-mu-un-zu-ta-am

še-šes erim-usu-am nu-gál-la-am

še-šes erim-eninnu-am nu-gál-la-am

še-tur-tur še-kur-ra še-à-sal-gal-la nu-gál-la-am

15 *šu-gar tuš-tuš-bi nu-gál-la-am*

^dtik-ku nu-še-tur kà nu-íl

en ^dnin-tu en kal-kal nu-in-tu-ud

^dug¹⁴ maš tum-ma maš dú-da ê

nam-lù un-zu erim-nun-a gâ-e-ne

20 *gar-kù-šà-bi mu-un-zu-uš-am*

tug-gi-tuš-tuš-bi nu-mu-un-zu-uš-am

uku ^{gi}gi-a-na-dur-bi mu-ê

¹¹ *ra* = *la*, 'not'; cf. *Origin of Babylonian Writing*, no. 287^a. It is often employed in the Stele of Vultures in this sense; see for example col. xxi, 2, 3, *na-rú-a-bi ba-ra-paš-du*, 'this stele one shall not break.'

¹² The sign *x* is no. 606 in *The Origin of Babylonian Writing*. Its values are undetermined.

¹³ *anše-ra*, for *anše-kur-ra*. *kur* was omitted by the scribe.

¹⁴ In Semitic Shamash, the sun-god.

- By making a dwelling a kindred was formed.
 To the gardens they brought irrigation;
 25 On that day their [gardens] sprouted (?).
 Trees mountain and country. . . .

REVERSE

- Father Enlil(?)
 standing grain(?)
 for mankind
 creation of Entu
 5 Father Enlil,
 Duazagga, the way of the gods
 Duazagga, the brilliant, for my god I guard(?)
 Entu and Enlil with an incantation
 A dwelling for Ashnan from out of Duazagga I will [make
 for thee(?)].
 10 Two thirds of the fold perished(?);
 His plants for food he created for them;
 Ashnan rained on the field for them;
 The moist(?) wind and the fiery storm-cloud he created for
 them.
 Two thirds of the fold stood;
 15 For the shepherd of the fold joy was disturbed.
 The house of rushes did not stand;
 From Duazagga(?) joy departed.
 From his dwelling, a lofty height, his boat
 Descended; from heaven he came
 20 To the dwelling of Ashnan; the scepter he brought forth to
 them;
 His brilliant city he raised up, he appointed for them;
 The reed-country he planted; he appointed for them;
 The falling rain the hollows caught for them;
 A dwelling-place was their land; food made men multiply;
 25 Prosperity entered the land; it caused them to become a
 multitude.
 He brought to the hand of man the scepter of command.

¹⁵ *du-el-azag-ga* is doubtless a variant spelling of *du-azag-ga*. The sign *el* introduces an additional word for brightness, thus emphasizing *azag*.

- tuš-gim-ka ba-[ni]-in-ib ušbar*
a-šar-šar-ra im-gú-gú-ne
 25 *ud-ba-ki dar-. . . . r]a-e-n[e . . .*
giš-bi dul bi-kur-ġar
gub(?) dul(?) bi
. nu

REVERSE

- a-a^ae]n-[lil*
. nà-ši-a
nam-lù-ge
. ba^aen-tu-ge
 5 *a-a^aen-lil*
dù-azag-ga šid-da dingir
dù-azag-ga laḥ-ga-a dingir-ma-da-ra ab-u[ru
^aen-tu ^aen-lil-bi dù-azag-ga-ra n[e
du^aezinu-bi dù-azag-ta im-ma-da-r[a-ru
 10 *šanabi-e amaš-a im-ma-ab-ḥab-.*
ú-bi e-gar-ra-ra mu-un-a-ba-e-ne
^aezinu gan-e mu-un-imi-am-ne
lil-apin uraš-laḥ-bi mu-un-a-ba-e-ne
šanabi amaš-a-na gub-ba-ni
 15 *sib-amaš-a ḥi-li dú-dú-a*
gi-li-eš nam-na-gub-ba-ni
dù-el¹⁵-azag-ga ḥi-li-ùl šub-am
ga-ni-ta sag-gi-ùl mà-ni
ib-gál an-na-ta tum-tum-a-ne
 20 *dù^aezinu-bi ḥat-tu ši-še-e-eš*

uru-azag-na ib-gál mu-da-an-gál-li-eš
kalam-ma-gi-šag¹⁶-gál mu-gub an-gál-li-eš
še-q-eš e-ka-sig im-sá-sá-e-ne
gišgal-ma kalam-ma-ne gar mu-ni-ab-rug-rug kal-mê
 25 *x¹⁷ kalam-ma ne-gig mu-un-ne-gál meš*

ab-a-tum-ra da-ki uš-ir a-ḥat-mê

¹⁶ *kalam-ma-gi-šag-gal*, literally 'the land, reeds are in the midst,' a very appropriate description of Babylonia.

¹⁷ The sign transcribed *x* is no. 241 in *The Origin of Babylonian Writing*. It has the meaning 'favor.' I have rendered it somewhat freely 'prosperity.'

The lord caused them to be and they came into existence.
 Companions calling them, with a man his wife he made
 them dwell.

At night as fitting companions they are together.

30 (sixty lines).

This text clearly gives us a new myth of the creation of man and the origin of civilization. It tells how the assembly of gods entered the mountain of heaven and earth, and how, because there was no vegetation on the earth, the gods held a consultation. At this point a relatively long statement of the non-existence of the chief features of agricultural civilization is introduced. In such statements Babylonian poets took especial delight. Three of the accounts of creation previously known contain such statements, and two of them are of considerable extent. At the end of this statement, you will remember, it is said that 'with Nintu the lord had not brought forth men.' Ug, the lion god, who was, as a later syllabary explains, Shamash, first came forth to plan. It is then sententiously stated:

Mankind he planned; many men were brought forth.

The verb for 'planned' is *zu*, which also means 'to know,' as in Genesis 4.1. Taken in connection with the previous statement that 'with Nintu the lord had not brought forth men' and with the following statement that 'many men were brought forth,' it means that Ug and Nintu became the divine parents of men.

It is further stated that

Food and sleep he planned for them;
 Clothing and dwellings he did not plan for them.

The lines that follow describe how men made reed huts such as are still found in the Babylonian marsh-lands, and how agriculture was begun. Here the obverse is concluded.

At the beginning of the reverse several lines are fragmentary. From the parts that remain it appears that some god is addressing Enlil. In this fragmentary address Duazagga, the heavenly ocean, is described as 'the way of the gods'—perhaps an allusion to the Milky Way. It would seem that all was not going well with men on the earth, so the god that is speaking proposes to form a dwelling for Ashnan, the god of Agriculture, outside of Duazagga. Apparently from what follows this new dwelling was upon the earth. The conditions were such that two-thirds

u-mu-un mu-ne-eš-ib-gál mu-da-an-gál-li-eš
man-na gu-ne za¹⁸-ki dam-ne ne-ba-an-gub-eš-a

gig-bi-ir¹⁹ bar-a-gar hat-mê-eš

30 LX šu-ši LX.

of the fold perished; whereupon Ashnan created plants and in addition caused it to rain on the earth. He created the moist cloud and the storm cloud. But after that the violent rains were destructive. His measures were helpful, but not sufficiently helpful; still one-third of the fold perished and the houses of rushes were swept away. The point of view of the text here is similar to the account of the creation discovered by Dr. Poebel; it mingles with the story of creation, not indeed the story of a flood, but one of destructive storms. Then a god (Enlil?) came down from his heavenly to his earthly dwelling and inaugurated city-civilization—cities as the elevated and fortified dwellings of an agricultural people. Conditions were thus made secure, and men could then multiply.

Several expressions toward the end of the document remind one of expressions in the early chapters of the Book of Genesis. Thus

The lord caused them to be and they came into existence
(umun mu-ne-eš-ib-gál mu-da-an-gál-li-eš)

reminds us of Gen. 1.3: 'God said, Let there be light and there was light.' Again: 'Companions calling them, with a man his wife he made them dwell,' recalls Gen. 2.18: 'It is not good that the man should be alone; I will make a helpmeet for him,' and Gen. 2.24: 'Therefore shall a man leave his father and his mother and shall cleave unto his wife.' 'At night as fitting companions they are together,' is another way of saying as Gen. 2.23 does, 'they shall be one flesh.' The statements: 'The scepter he brought forth to them,' and 'He brought to the hand of man the scepter of command,' recall Gen. 1.28, where God gives man dominion over all lower orders of life.

The discovery of this text, which, as the palaeography shows,

¹⁸ *za* = *amêlu*, see *Origin of Babylonian Writing*, no. 523², and Delitzsch, *Sumerisches Glossar*, p. 218.

¹⁹ *gig-bi-ir*, literally 'in their night.'

belongs to the Cassite period or the First Dynasty of Babylon, adds emphasis to the fondness of the Babylonians for giving expression to their religious ideas through myths of creation, which they employed to a greater degree and in a greater variety of ways than any other people of the ancient East.

I have hitherto spoken only of literary expressions of the Babylonian religious spirit, because at this distance it is upon these that we must mainly depend for our knowledge. It should however be noted in conclusion that, as in all the rest of the ancient world, the whole organized life of Babylonia was an expression of its religious spirit. Kings consulted the gods before entering upon any great undertaking. At the dawn of Babylonian history Eanatum sought the will of Ningirsu before undertaking his war with Umma, and during the last reigns of the Assyrian kingdom Esarhaddon sought his oracles, and the seers of Ashurbanapal had their dreams such as that in which the goddess Ishtar revealed herself and her will at the river Ididi. The Bronze Gates of Balawat show us that an army did not cross a river without first propitiating its god by sacrifice. In the code of Hammurapi it is taken for granted that an oath in the presence of a god is sufficient to render a man's word trustworthy, even when it cannot be corroborated by witnesses. Evil spirits as well as good left their impress on life and institutions. Demons of sickness and misfortune were driven away by incantations and ceremonies. It is quite evident that men lived in a vivid consciousness of the supernatural. The type of religion that Babylonian life expressed was vigorous and natural, if sometimes crude. That revealed in Babylonia was gentler and more humane than that in Assyria, but both partook of those human frailties that are prominent in early men and are not altogether absent from our modern Christian world. If the code of Hammurapi betrays a particular fondness for the death penalty, so did English law in the days of Cromwell. If Assyrian wars make us shudder with the tales of frightfulness over which her monarchs gloated, there are at least some in our own time who could scarcely cast a stone at her. Through both the literature and life of Babylonia and Assyria we behold one of the most important of the ancient nations feeling after God, and giving us a most instructive expression, if not one of the most important, of the religious spirit.

TWO JEWISH AMULETS IN THE UNITED STATES NATIONAL MUSEUM*

I. M. CASANOWICZ
UNITED STATES NATIONAL MUSEUM

I

An amulet for the protection of Daniel, son of Berakah, against evil spirits, sickness, the evil eye and magic. Manuscript written on vellum, measuring 14½ by 6½ inches. From Tunis, North Africa. The amulet is a sort of palimpsest, written upon the erasures of what was likewise an amulet, to judge from the traces of the script and figures still discernible. But the present text also seems subsequently to have been used by, or intended for, another person, as the name of the present client and a few other words are written in a different hand from the rest of the writing on erased places. The larger part of the manuscript is fitted out with various devices and figures, scriptural passages and mystical names; the invocation or conjuration proper, written in smaller script than the rest, occupies a comparatively small space at the bottom.

On top סני וסנסני וסמנגלף for which see *JAOS* 36. 158. Underneath in the center, a square inscribed with יהוה and אלהיה, each written in the regular and reversed order. On the sides of the square are four of the 72 three-lettered names of God, derived from Ex. 14. 19-21 (*ib.* p. 155). To the right of the square, 'Thou shalt not suffer a sorceress to live' (Ex. 22. 18) in six permutations; to the left, 22 (corresponding to the number of letters in the Hebrew alphabet?) three-lettered mystical names, followed by Gen. 49. 18, 'I wait for thy help, O JHVH,' and the initials of the doxology, 'Blessed be the name of his glorious Kingdom for ever.'

The second division is marked off on each of the four corners by the words אנקתם פסתם פספסים ריונסים for which see *JAOS* 36. 158. In the center, Psalm 67, written in form of the seven-branched candlestick (*menorah*), with the divine names

* For a general survey of the collection of Jewish amulets in the National Museum see *JAOS* 36. 154 ff.

יְהוָה, אֱהִיָּה, אֲרִנִּי, each preceded by אֵל, on the sides of the shaft. To both sides of the *menorah*, Ps. 90. 17-91. 5 and Deut. 6. 4-9 intertwined, i. e., alternating word by word from either passage. On the left side is read underneath, 'And blue and purple and scarlet and fine linen and goats' hair' (Ex. 25. 5), quoted on account of אֲרִנְמָן, which is written in larger letters than the rest and marked as an acrostic, namely of the angelic names, Uriel, Rafael, Gabriel, Michael and Nuriel, followed by the words, 'O living God, deliver!' Under the *menorah* is read, 'And all the people of the earth will see that thou art called by the name of JHVH and will fear thee' (Deut. 28. 10), and under it, 'Thou Daniel, son of Berakah, mayest be blessed . . . and be preserved from all evil accidents.'

The third division consists of a square which encloses other smaller squares and other figures, and is divided into two compartments by the word אֶהְיֶה, an amalgamation of אֱהִיָּה and אֵל, one of the 72 three-lettered names of God. The square is surrounded by an inscription which begins at the top of the right side with a repetition of Deut. 28. 10; 'Thou Daniel, son of Berakah'; 'And JHVH will take away from thee all sickness, and he will put none of the evil diseases of Egypt, which thou knowest, upon thee, but will lay them upon all them that hate thee' (Deut. 7. 15); לֵקִי (initials of Gen. 49. 18); אָמֵן נֶצַח סֶלַח וְעַד אֲנִסִּי (Amen, enduring for ever). Within the square there are in the upper part three small squares. Those in the two corners are inscribed with יְהוָה, אֲרִנִּי, אֱהִיָּה, and בְּרוּהַ in various permutations. The middle one encloses a sort of rhomboid which again holds a small square. This triple figure contains the words, יְהוָה הוֹשִׁיעַ ('O JHVH help!'); פֶּלֶא יוֹהָךְ (doubtless erroneously for כִּלְךָ, for which see JAOS 36. 159); יְהִי שִׁגְבִּי ('Yah exalt!'); שְׂרֵי יְהוָה. In the corners of the 'rhomboid,' אֵל, אֱוָה, לֵיב, and around its sides the angelic names, Duriel, Gadiel, Berakiel and Akathriel, with יְהִי above each. In the lower part there are on either side squares of three by thirteen lines each. The first and third oblong lines contain Ex. 15. 11, 'Who is like unto thee, JHVH, glorious in holiness, fearful in praises, doing wonders.' The middle line has a series of disconnected letters, probably intended to form in combination with the letters above and below 26 three-lettered mystical names corresponding to the numerical value of יְהוָה.



I. AMULET ON VELLUM FOR THE PROTECTION OF DANIEL,
SON OF BERAKAH. TUNIS, NORTH AFRICA

In the middle is an awkwardly drawn 'Shield of David,' inscribed, (מעין הרע) אסוותא מן שמיא דעלמין להצלה מעיה (מכשוף ומכל חלי רע א'ס ('Salvation, or healing, from God of the world,¹ for the delivery from the evil eyes, and from magic, and from every evil disease. Amen. Selah.') In the angles סיסא סרנא and ר' רב. טט. טט. in changed positions.

The invocation is again enclosed in an inscription. The first six words of the upper line seem to be deformations of foreign words; the next two are two of the 72 three-lettered names; the rest are amalgamations of יהוה with the 14 triads of the acrostics of the prayer of Nehunya ben Ha-Kanah (for which see *JAOS* 36. 159, n. 13).

THE INVOCATION

- 1 בבקשה מכם אתון מלאכיא קדישא דקימין קדם אלהא
רבא יהוה מברך בשם מיכאל נוריאל צדקיאל פואל
קדרניאל שמיאל
- 2 רפאל ובשם שנגלה למשה בסניי ובשם שקרע את הים
ל"ב קרעים ובשם שנתן תורה לישראל ובשם שנגלה
לאליהו בכרמל ובשם
- 3 שריפא המים על ידי אלישע ובשם שהציל את דניאל
מגוב אריות ולא חבלוהו כן תצילו ותרפאו ותגינו ותשמרו
לדניאל בר
- 4 ברכה הנקע (הנושא קמיע עליו) ממיני תותין דפרחין בין
רקיעא לארעא ומרוחין בישין ומלילית וממזיקין ומפחד
לילה¹⁰ ומחלאים רעים ומכל פגעים
- 5 רעים ומכל מיני פורעניות בשם יוהך כי מלאכיו יצוה לך¹¹
ותשמרהו מכל מקורות מיאורין ומכל מיני כישופים בשם
מאני שמיאל
- 6 סוסיא בניה¹² ותצילו ותשמרו ותשרו ותפרדו מעינא בישא
ומכל מרעין בישין אלא תנוהו לחן ולחסד ולרחמים
בעיניכם
- 7 ובעיני כל רואיו בשם חניאל חסדיאל רחמיאל ובכח השם
היצא מפסוק ונח מצא חן בעיני יהוה ואתם המלאכים
הממונים

- 8 על אצרות השמים והברכה תפתחו את אצרותיכם
 ותשביעו ותשפיעו שפע מטובתכם בשם כח השם היוצא
 9 מפסוק 'פתח יהוה לך את אצרו הטוב את השמים בשם
 תג'עש תע'צש א'א' ס'ס'ס' אנרש כו'ו צמ'רכר'
 10 קדש הקדשים במוכסו כו'ו' בר .

TRANSLATION

- 1 I pray of you, ye holy angels,⁸ who stand before the great God,⁴ JHVH, who is blessed, in the name of Michael, Nuriel, Sadkiel, Puel, Kadarniel, Shamshiel,
- 2 Rafael. And in the name by which he was revealed to Moses on Sinai; and in the name by which he cut the sea into twelve pieces⁵; and in the name by which he gave the Torah to Israel; and in the name by which he was revealed to Elijah on Carmel⁶; and in the name
- 3 by which he healed the water through Elisha⁷; and in the name by which he rescued Daniel from the den of lions so that they did not destroy him⁸—so may you deliver and heal and shield and preserve Daniel, son
- 4 of Berakah, the bearer of the amulet upon him, from the kinds of . . .⁹ that flit about between heaven and earth; and from evil spirits; and from Liliths; and from injurious spirits; and from the terror of the night¹⁰; and from evil diseases; and from all evil plagues;
- 5 and from all kinds of visitations, in the name of YUHK, 'For he shall give his angels charge over thee.'¹¹ And ye may guard him against all sinister¹² accidents, and all kinds of magic, in the name of Ma'ni Shamiel
- 6 So(u)sya, Banyah.¹³ And may you deliver and preserve and loosen and free him from the evil eye and from all evil afflictions; but render him an object of favor and grace and compassion in your eyes
- 7 and in the eyes of all who see him, in the name of Hannel, Hasdiel, Rahamiel; and by the power of the name which issues from the verse, 'And Noah found favor in the eyes of JHVH.' And ye the angels, who are set
- 8 over the treasures of heaven and blessing, may you open your treasures and sate and lavish abundance from your bounty in the name of the power of the name which issues

- 9 from the verse, 'JHVH will open unto thee his good treasure, the heaven.' In the name of TG'S, T'SŠ. Amen, Amen, Amen, Selah, Selah, Selah. ANDŠ. JHVH. ŠMARKD.¹⁴
- 10 Most Holy. Our God JHVH.¹⁵ BD.

NOTES

¹ שמיא on account of the following דעלמין here = God. Comp. for this meaning of heaven *Jewish Enc.* s. v., 6. 298, and James A. Montgomery, *Aramaic Incantation Texts from Nippur*, Philadelphia, 1913, 11. 2 (p. 170); 18. 1 (p. 193). For the combination, 'God of the worlds' comp. Is. 26. 4: צור עולמים and רבון כל הע' in the Jewish liturgy.

² Cf. Montgomery, *op. cit.*, 7. 11 (p. 146) and glossary, s. v.

³ Cf. Montgomery, *op. cit.* 8. 14 (p. 154) and (*in malam partem* = 'sacri') 4. 1 (p. 132).

⁴ Cf. Montgomery, *op. cit.* 7. 4 (p. 145).

⁵ Corresponding to the Twelve Tribes, cf. Rashi to Ps. 136. 13; Ex. Midr. R. 24. 1, and Deut. Midr. R. 11. 9.

⁶ 1 K. 18. 19.

⁷ 2 K. 2. 19.

⁸ Dan. 6. 23.—The appeal by the manifestations of God's power and wondrous help in critical events through Israel's history is also found in the prayers recited on fast days and during the penitential seasons. Montgomery, *op. cit.* p. 64, quotes parallels from Babylonian and Egyptian magical practices.

⁹ תותין unknown. Etymologically it might be explained to mean 'lower ones,' from תות, but the context points to some kind of winged beings who traverse the spaces between heaven and earth. Wings, however, are also attributed to the Shedim and Lilin, cf. *JAOS* 36. 166, n. 46.

¹⁰ Ps. 91. 5. Targ. *ad loc.* gives this passage (as the rest of the psalm) a demonistic meaning: דלוחא רמויקי דאולין בליליא.

¹¹ Ps. 91. 11a; ויהך is formed of the end letters of the four words.

¹² מקורות מלאוין. מקרים is doubtless = קריה. קריה 'accidents,' but מלא is difficult to explain. Can it be a formation from מאיר, 'cursed, pernicious, sinister'?

¹³ Perhaps names of 'master magicians' or 'master conjurors,' like Abbahu, Joshua b. Perahya, Bar Mesosia, etc., in the incantation bowls, cf. Montgomery, *op. cit.* p. 24, 99, 112 f., etc.

¹⁴ See *JAOS* 36. 159.

¹⁵ See *JAOS* 36. 158.

Underneath the invocation is a small crudely drawn 'shield of David' inscribed with יהוה, אכתריאל, and צבאות, and a sort of tree or branch, placed upside down. The latter may represent the 'magic bough' depicted on one of the Nippur

- 4 מרכבה' לפניו כרעים ומשתחוים
 5 כותב אני קמיע זה לשם שמירה
 6 ורפואה והצלה נ'ק'זע [נשא קמיע זה עליו]
 7 בכח מלאך זה היום שמזלו אריה
 8 ומלאכו רפאל ומשרתו צדקי שיהיה
 9 נשמר נ'ק'זע מכל חלאים רעים
 10 ונאמנים ומכל מאורעות קשות ורעות
 11 ומכל פחד ואימה וצער ונוק וריפין
 12 ובהלה והרגזה והרעשה וכובר רוח
 13 רעה ומשרין לילין צפירין וטהרירין
 14 רוחניים ארציים ומימיים הרעים
 15 בסתר ובגלוי ביום ובלילה ומכל
 16 שד ושדה השוכנים בבתים ובחצרות ובאפיקים
 17 ובמרחצאות ובאגמים ובבארות ובבחלים
 18 ובמעינות ובאילנות ובפנות הבית וברפש
 19 ובטיט ובפרשת דרכים על הכל אני
 20 משביע בכח סנוי וסנסנוי וסמנגלף ובשם
 21 יואחצבירון ועליך לילית ועל כל כת דילך
 22 ועליך זומזמית ועל כל כת דילך ועליך אגרת
 23 בת מחלת' ועל כל כת דילך ועליך קפקפוע'
 24 מלכא דשדי ועל כל חייליה ועל כל רוחין
 25 בישין ומזיקין ומרוח אבריי ומרוח קטוליי¹⁰ ומרוח
 26 קבריי ומרוח מעיא ושליטא ועל כל שרין דדכרין
 27 שמיחון ודלא ד'ש' שאני יודע שמיהין ושאין איש'
 28 שלא תזיקו ולא תפחידו ולא תזיעו ולא
 29 תרעידו ולא תרעישו ולא תשחיתו ולא תפסידו
 30 נ'ק'זע בשום אבר מרמ'ח¹¹
 31 איבריו לא בראשו ולא במראית עיניו...¹⁶

TRANSLATION

- 1 In the name of JHVH, the God of Israel, who dwelleth
 2 among the Cherubim, before whose awfulness the angels (or
 gods) fear,
 3 and the Ofanim (wheels) tremble, and all the princes

- 4 of the Merkabah (chariot)² kneel down and prostrate themselves before him—
- 5 I write this amulet for the protection
- 6 and healing and delivery of the bearer of this amulet upon him.
- 7 By the power of the angel of this day, whose constellation is Leo,
- 8 and his [ruling] angel is Rafael, and his servitor is Jupiter,³ that
- 9 the bearer of this amulet be guarded against all evil and
- 10 enduring diseases, and against all severe and evil vicissitudes
- 11 and against any fear, terror, anguish, injury, and feebleness,
- 12 and panic, and upsetting, and trembling, and depression of an evil
- 13 spirit, and against Shedim, Lilin, morning demons, and mid-day demons,⁴
- 14 whether they be evil [demons] of the winds, the earth, or the waters,⁵
- 15 hidden or revealed, by day or by night; and
- 16 against any male Shed and female Shed who dwell in houses, and in courtyards, and in channels,
- 17 and in bath-houses, and in pools, and in wells, and in brooks,
- 18 and in springs, and in trees, and in the corners of the house, and in mire
- 19 and dirt, and on the cross-roads.⁶—All of them
- 20 I adjure by the power of Sanuy and Sansanuy and Saman-galuf, and in the name
- 21 of Yu'ahassbirun, and thee Lilith and thy entire band,
- 22 and thee Zumzamith and thy entire band, and thee Agrath,
- 23 daughter of Mahlath,⁷ and thy entire band, and thee Kaf-kapu'a,⁸
- 24 king of the Shedim, and his entire host, and all evil
- 25 spirits, and injuring spirits. And against the spirit of . . .,⁹ and the spirit of a slain man¹⁰ (?), and the spirit
- 26 of the grave,¹¹ and the spirit of . . . and of . . .,¹² and all the Shedim whose names
- 27 are remembered or whose names are not remembered,¹³ whose names I know or no man [knows]¹⁴—

- 28 that ye shall not injure, and not frighten, and not disturb,
and not
29 terrorize, and not upset, and not destroy, and not harm
30 the bearer of this amulet upon him in any member
of his two hundred forty-eight¹⁵
31 members, neither in his head nor in his eyesight . . .¹⁶

NOTES

¹ The ק (or ר) is often substituted for the ה in the name of God in later Jewish writings; cf. *Jewish Enc.* 9. 164.

² The mystical interpretation of the description of the chariot with its constituent parts, the wheels (*ofanim*), beasts (*hayyoth*), in Ezek. 1 and 10, forms under the name of 'Ma'aseh Merkabah' a very important part of the secret lore in both the Talmud and the Kabbalah.

³ On astrological elements in Jewish amulets see *JAOS* 36. 156.

⁴ טהרין from טהר. 'to cleanse,' then 'to brighten' (as a result of cleansing); hence Targ. to Ps. 91. 6 renders צהרים by טיהורא, 'the day being at noontime at its brightest.' Both צפרי' (from צפרא 'morning') and טיהור' for morning and midday demons, respectively, are found in Targ. to Cant. 4. 6; cf. also Berak. 2^a and Yoma 59^a.

⁵ Spirits who cause storms, earthquakes, and floods; see *Jewish Enc.* 4. 516. Cf. בנתא דברא, לילית רב, in Montgomery, *Aramaic Incantation Texts*, p. 78; 17. 3 (p. 190); 29. 7 (p. 218).

⁶ On the abodes of demons see *Jewish Enc.* 4. 516.—Among the trees the palm tree seems to have been considered as a favorite rendezvous of spirits, Pes. 111^a. So also are the cross-roads 'a resort of spirits'; Hecate is often found there, and in the Testament of Solomon . . . the demon Envy says, 'In the cross-ways also I have my services to render,' R. Campbell Thompson, *Semitic Magic, its Origin and Development*, p. 200, n. 4; cf. J. G. Frazer, *The Golden Bough*, 3^d. 80, and *Enc. Bibl.* s. v. 'Medicine,' 3. 3006.

⁷ See *JAOS* 36. 167, n. 48.

⁸ Elsewhere Ashmodai (Asmodeus) or Samael is named as prince of the demonic hosts.

⁹ אמר, whether derived from אמר, 'limb,' or from אמר, 'led,' it does not fit into the context.

¹⁰ The immediately following רוח קבר would suggest the taking of קטול' in the passive sense, the spirit of a murdered man who finds no rest and annoys people on earth, a belief widely spread. But perhaps it is more correct to take the word in the active sense, a murderous spirit, for which cf. Montgomery, *op. cit.* 36. 2 (p. 238), קטולתא ברת ק, 'murderess, daughter of a murderess.'

¹¹ For the conception of graveyards as abode of spirits cf. Hag. 3^b and Sanh. 65^b.

¹² שליטא... מעיא which cannot in this connection be connected with קע'ם, 'intestines' and שליטא, 'ruler.'

¹³ What Montgomery terms 'blanket formulas,' so as not to omit any agency, cf. *op. cit.* 14. 6 (p. 183); 29. 9 (p. 218); etc.

¹⁴ Supply 'וּרְעָ ש'.

¹⁵ See *JAOS* 36. 165, n. 24.

¹⁶ The scribe apparently broke off in the middle of his copy, which probably continued the enumeration of the other bodily parts which were to be protected from attack, closing with a prayer that the patient might find grace and favor in the eyes of God and men.

THE INVOCATION TO THE LEFT

- 1 יהי רצון מלפניך יהוה אלהי ואלהי
- 2 אבתי למענך ולמען שמך הגדול
- 3 המוכתר באלו שמות הקדושים
- 4 והנוראים יוהוהוה ייהוה ייהוה ייהוה
- 5 יעלהוה ימהוהוה ילהוה יאהבוהוה
- 6 יכהוהוה ייהוהוה יאהלוהוה ילהוהוה
- 7 ייהוהוה ייהוהוה ימהוהוה ולמען
- 8 שמונת הקדושים אלו אגלא
- 9 אזכנה יוהך כלך כחו במוכסו כחו
- 10 שתשמור ותציל
- 11 נ'ק'ז'ע מכל עין הרע ומלשון הרע
- 12 ומכל דבור רע ומכל מראים בישן
- 13 ומנכפה ומאסכרה ומנזילה ומחולי
- 14 שחורה ולבנה ואדומה וירוקה ומכל
- 15 תרדמת אברים וממיתה משונה
- 16 וממיתה פתאומית ומשטות ומבלבול מוח
- 17 ומתמהון לבב ומעילוף ורתת חזע ומרמינות
- 18 רעות וממצוקות לב ומדאבון לב ומדחוק
- 19 לב ומצירי לב ומעצבון לב בשם ובכח
- 20 לטבלא ונחב שתשמור ותציל לנ'ק'ז'ע מכאב
- 21 ראש ומחלי עין וממצוקות לב ומקטב ומרירי
- 22 ומרבר ומגפה בשם צדנלבש קהסמגת
- 23 קסטיאל קטסיאל ומכל מיני קישורי וכישוף
- 24 שבעולם כדכתיב מכשפה לא תחיה בשם
- 25 היה וימצא חן ושכל טוב בעיניך ובעיני כל
- 26 רואיו כדכתיב ונח מצא חן בעיני יהוה וכתיב

- 27 ומצא חן ושכל טוב בעיני אלהים ואדם ותהיה (sic)
 28 לאהבה לחן ולחסד ולרחמים בעיניך ובעיני
 29 כל רואיו בשם אהביאל חניאל חסדיאל
 30 רחמיאל אמן נצח סלה ועד אוריאל רפאל
 31 גבריאל מיכאל סמכיאל עזריאל צדקיאל
 32 שעשיאל.

TRANSLATION

- 1 May it please thee, O JHVH, my God and the God
 2 of my fathers, for thy sake and for the sake of thy great
 name
 3 which is crowned with these holy
 4 and awful names _____
 5 _____
 6 _____
 7 _____,¹ and for the sake
 8 of these thy holy names 'AGLA'²
 9 AZBUGAH YUHK KLK³ KUZU BMUKSZ KUZU.⁴
 10 That thou mayest guard and deliver
 11 the bearer of this amulet upon him from any evil eye and
 from an evil tongue,⁵
 12 and from all evil speech, and from all evil sights,
 13 and from epilepsy, and from croup, and from a running
 catarrh,
 14 and from the black sickness (melancholy, or *melanaemia*),
 and the white sickness (*leukaemia*), and the red sickness
 (jaundice), and the green sickness (biliousness, or Egyptian
chlorosis),
 15 and from any torpor of the limbs (paralysis, or narcosis),
 and from a strange death,
 16 and a sudden death,⁶ and from folly and confusion of the
 brain,
 17 and from stupor of the heart, and from faintness, trembling,
 and shock, and from evil
 18 fancies and distress of the heart, and languor of the heart,
 and pressure
 19 of the heart, and . . .⁷ of the heart, and sadness of the
 heart. In the name and by the power
 20 of LTBLA' WNHB mayest thou guard and protect the
 bearer of this amulet upon him from head-

- 21 ache, and from eye-sore, and from distresses of the heart,⁸
and from Keṭeb and Meriri,⁹
22 and from pestilence and plague: in the name of SDNLBSH
KHSMGT
23 Kaṣṭiel Kaṣṭiel. And from any bond¹⁰ and magic [that
exist]
24 in the world, as it is written, 'Thou shalt not suffer a sor-
ceress to live,'¹¹ in
25 the name of HYH. And may he find favor and good under-
standing in thine eyes and in the eyes of all
26 who see him, as it is written, 'And Noah found favor in the
eyes of JHVH'¹²; and is written,
27 'And thou wilt find favor and good understanding in the
eyes of God and man.'¹³ And may he be an object
28 of love, favor and grace and compassion in thine eyes and
in the eyes
29 of all who see him; in the name of Ahabiel, Hannel, Hasdiel,
30 Rahamiel. Amen, enduring forever. Uriel, Rafael,
31 Gabriel, Michael, Samkiel, 'Azriel, Ṣadkiel,
32 Sha'ashiel.

NOTES

¹ The names in lines 4 to 7 are composed of the fourteen three-lettered names scattered between the zigzag figure on top of the amulet, inter-linked each with יהוה.

² The initial letters of אַתָּה גִבּוֹר לְעוֹלָם אֲדֹנָי. 'Thou art mighty for ever O Lord,' the first words of the second prayer of the 'Eighteen Benedictions' (*Shemoneh 'Esreh*, or '*Amidah*'); also the acrostic of the first words of Gen. 49. 8-11 (Judah of v. 8, as the address, not being counted).

³ Combined of the end letters of Ps. 91. 11.

⁴ By ab-gd = יהוה אֱלֹהֵינוּ ל'.

⁵ In the Talmud the technical term for calumny or slander; here probably of casting an evil spell by some magical formula.

⁶ Cf. the petition, 'from sudden death, good Lord deliver us,' in the Litany of the Common Prayer Book.

⁷ צִדִּי. The word is found in plural, Jud. 2. 3, rendered by *LXX* *συναχάς* = צָרוֹת (ף), by Targ. מַעֲקִיָּין = צָרִים, but is most probably to be amended after the parallels in Num. 33. 55 and Josh. 23. 13, into צִנִּיִּים, 'thorns.'

⁸ Already mentioned in line 18.

⁹ Both words, without copula, are found in Deut. 32. 24, English versions, 'bitter destruction'; קָטַב alone, in parallel to דָּבַר, occurs Is. 28. 2; Hos. 13. 14; and Ps. 91. 6. In the last passage both Targ. and Rashi render both words by 'demon' (שֵׁד). In rabbinical literature (Pes. 111b, Num.

R. 12. 3) קִיטִי is depicted as a demon calf-headed with revolving goat's horn, an eye in the breast, and body covered with scales, hair, and eyes, who reigns from the seventeenth of Tammuz to the ninth of Ab (the season of national mourning). For a similar monster in Assyrian incantations see Thompson, *Semitic Magic*, p. 63 f.

¹⁰ קִישׁוֹר. It may mean a psychical or spiritual bond, i. e. the duress caused by a demon or sorcerer (cf. Luke 13. 16), which the juxtaposition of כִּישׁוֹן would suggest; or it may refer to bewitchment by tying knots, cf. Montgomery, *op. cit.* קִישְׁרִי, 7. 13 (p. 146), and עִקְרָא: 34. 10 (p. 231). On the wide-spread practice of sorcery by tying knots see Frazer, *Golden Bough*, 1st. 392, 397; Thompson, *op. cit.* p. 168 ff.

¹¹ Exod. 22. 18.

¹² Gen. 6. 8.

¹³ Prov. 3. 4.

THE SITE OF CONSTANTINOPLE A FACTOR OF HISTORICAL VALUE

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For more than 2000 years the leading minds of the world have dreamt of Constantinople. Dreamt of it in visions of splendor as did the Russians of Kief and Smolensk in mid-medieval days when they thought of Tsarigrad—the city of Emperors. Dreamt of it in golden dreams as did the bankers of Venice and Genoa in the twelfth century when they figured that the annual income of Byzantine Emperors exceeded one hundred million dollars. Dreamt of it as did the minstrels of western Europe when they sang of the beauty of Byzantine palaces and the pleasures of life in Byzantium. To account for the magic of the name and for the strength and permanence of the impression it created requires a thorough understanding of the value of its site, and I am attempting to show in the following lines that a large share of Constantinople's greatness and fame was the result of its geographical position. This paper will therefore be confined to a presentation of what might correctly be called a background study.

Were we to liken the world of ancient history to a gigantic spider's web, Constantinople would occupy the center, and the threads radiating outward would represent the far-reaching system of roads leading in every direction from the capital. How different is the relation of Rome and Constantinople to systems of world routes! We are so accustomed to the saying that all roads led to Rome that we forget the truth which was that all roads were made to lead artificially to Rome for a stated period of history, whereas they have always led naturally to Constantinople. Rome was the convenient center for a Mediterranean power. Constantinople on the other hand was the indicated headquarters of authority in the western half of the eastern hemisphere.

It was the hub of a set of land and sea roads which, spoke-like, linked it to the outermost fringe of the inhabited world. The Baltic was reached on the north through the long rivers

flowing on the great plains of Russia. Out of Thrace and its cold mountains the valleys of the Maritsa and Isker led into the Danube furrow which provided a connecting link with the Atlantic on the west. In the east the roads extended as far as the Pacific while to the south they attained the Mediterranean and the Indian Ocean.

The eastern land routes crossed Asia Minor on the north and south. The southern road made use of the winding valley of the Sakaria river to climb upon the tableland. The descent was made at the celebrated Cilician gate, whence a fan of roads led to Egypt and India. This last goal could be reached by land south of the great central salt deserts of Persia, by following the old Median way between Baghdad and Kermanshah and proceeding by Kirman to northwestern India. The northern road usually comprised a watery stretch between Constantinople and Trebizond. East of this city it passed by Tabriz and Teheran and penetrated Turan, Central Asia, and China or else lost itself by way of Meshed into the mountain tangle of Afghanistan.

To the east Constantinople has always been in touch with the heart of Slavic Russia through the Dnieper valley. The river and its affluents drain an extensive plain which connects the central plateau of Russia with the Podolian upland. Baltic ridges form its natural bulwark on the north. But the easiest outlet leads southwards toward the Black Sea. Hence Varangian adventurers leading flotillas of war galleys drifted inevitably towards the capital. In time these fair-complexioned northerners were drafted by Byzantine emperors into regiments whose boast of being Constantinople's stoutest defenders has never been controverted.

The importance of the penetration of this long river into Russian territory can never be overestimated in the history of civilization. Its head-waters attain the eastern edge of Russia's industrial zone. Its lower course waters the western end of the celebrated Black Soil or Chernozom belt. These facts mean that the river valley is the main artery of communication in Russia's most densely populated sections. There the purest type of Russians known as Little Russians are found. These Slavs are probably the only members of the Russian family whose blood is free from Teutonic or Tatar mingling. Nor is

it strange to find that this very region is gradually receiving recognition as the original seat of the entire Slav family.

Into this very heart of Slavdom and of Russian nationality, the winding channel of the Dnieper provided the convenient road along which the Christian ideals of Byzantium traveled northward. Russia, barred on land by interminable plains and lofty mountains from receiving the Vatican's form of Christianity, lay nevertheless open to the influence of the Eastern Church, thanks to the Dnieper furrow. This conversion of pagan Russia to Christianity by Byzantine monks is an event of the utmost historical significance in the history of European progress. It enabled Russia to play the part of warden of Europe's eastern marches. Between the rushing tide of Tatar barbarism and the immature civilization of Western Europe, Russia proved the bulwark that stemmed the flood. But this historical fact was a direct outcome of the ease with which Byzantines could travel to Russian cities by sailing on the Black Sea and up Russian rivers.

To understand better how Constantinople found itself on the great highroads which men have used in preference to others throughout the ages, it is necessary to bear in mind the Eurasian migrations. Probably the most important prehistoric migration between Europe and Asia was the advance of the Alpines, men of the race of roundheads, who traveled westward from Asia bringing the knowledge of metals to the Europeans of the Stone Age. It was the introduction of a superior civilization from Asia, and Constantinople lay directly in the path of this advance. In the north where the great steppes of Asia pass into the lowlands of Russia and Germany, humanity was less civilized than in the rugged regions of mountains rising to the south. The intercourse between these northerners did not affect Constantinople directly. The main body of the bronze-bearing Alpines crossed from Asia Minor into the Balkan peninsula. They must have forded the Bosphorus. The plains of Thrace and of northwestern Anatolia will yield the secrets of these migrations around the shores of the Golden Horn as soon as exploration will become possible.

In the early times before 3000 B. C. travel was slow and confined largely to the mainland. But the admirable site of Constantinople must have attracted the attention of the bronze-

bearing wanderers who were trickling into Europe. With the growth of maritime travel following human ability to build boats after man had accustomed himself to use metal tools, the water lanes became frequented, and the water route connecting the Pontic shores with the Hellenic seats of civilization was widely traveled. Constantinople's greatness was assured as soon as this route was established. No wonder, then, that the records to which we can turn ascribe the founding of Byzantium to the Megarans in 657 B. C. The date is significant because we know that colonization was carried on by the Greeks at that time. The 7th century was one in which trade between the Greek cities and the harbors of the Black Sea basin was in a flourishing condition. Through this commerce the products of inner Asia were beginning to be known in Europe. Nevertheless we cannot accept this date as that of the founding of Byzantium. The discovery of tumuli and mounds containing stone implements in the suburbs of Constantinople, at Erenkeuy and Maltepe, as well as beyond in the Thracian rearlands and on the Asiatic side of the Bosphorus bears evidence of the occupation of the site before the coming of the Megarans.

The main advantage of Constantinople's site is derived from its position at the junction of two highways which connect Europe and Asia. As long as trade intercourse between the steppes of southwestern Russia and the Mediterranean basin was maintained and as long as Asia communicated with Europe through Asia Minor and the Balkan Peninsula, a share of the profits accruing from that trade would naturally revert to Constantinople. From the 5th century B. C. to the beginning of the 15th century A. D.—a period of 2000 years—an extensive interchange of commodities was carried on between the harbors of the Black Sea and the cities of the Greek peninsula. The Pontic shore was a granary to which hardy Greek sailors repaired year after year, for the supplies of wheat needed by their countrymen. Besides wheat, the steppes of southern Russia provided hides, skins, wool, and lumber. All these cargoes passed through the Bosphorus, stopping at the far-famed city which to the sailor and the trader was both a resting-station and an outfitting-base.

At the height of Rome's power a temporary change in the direction of travel occurred, and a part of the Asiatic traffic

was diverted to Ephesus, whence it was loaded on vessels sailing for Rome. Constantine's choice of a capital in 330, however, re-established the natural order. Ramsay notes that by the time of Justinian the southern route of Asia Minor was abandoned in favor of the northern.¹ Students of modern economic conditions in the Near East will not be surprised by these changes of traffic lanes, for to-day Smyrna is Constantinople's rival as a port of shipment for Southern Europe.

From 400 A. D. to 1000 A. D. Constantinople was the chief trading-center of the world. The Byzantine flag was not unknown in English ports where the galleys of Constantinople were often to be seen. And in the 6th century every important commercial center of the eastern Mediterranean lands had been superseded by Constantinople. The trade routes of antiquity had been extended deviously so as to cross the Bosphorus. Constantinople had become the city in which commercial privileges and trade monopolies flourished to an extent unknown elsewhere. The commerce of the world was made to leave a share of its profits to the small band of merchant-princes who controlled its routing.

The Byzantine's trade with Slavs was not merely confined to purchases of raw material from Russia. The luxury which prevailed at all Slavic courts during medieval times forced courtiers to spend lavishly on their dress. One could appear at court only arrayed in one's best. Ornaments especially were essential. An ordinary fur coat would not satisfy the upper social circles. It needs must have all the trimmings of pomp imaginable, such as gold braid and surcharges of value. High-priced ornaments were also in demand for the decoration of Slavic palaces. To supply all these wants was Byzantium's specialty. The Slav purchaser in need of silk cloth or velvet did not need to travel beyond Constantinople. The city's markets contained ample stocks at his disposal. Its goldsmiths and silversmiths were famed for their skill in converting precious metals into jewelry. This was the trade which excited the jealousy and envy of Italian cities, for it was only by the advantage of position that Byzantium was reached before the Italian cities whose favored rival it had become.

¹ *Historical Geography of Asia Minor*, p. 74.

It is therefore natural to find Italian merchants congregating in flourishing colonies in Constantinople. The merchant-managers of the Italian city-states, notably at Venice, Genoa, Amalfi, and Pisa, realized that the economic control of the Byzantine Empire at which they aimed could be secured only by establishing themselves solidly in the Byzantine city.

Constantinople was a city of active trade long before it became a capital. Its prosperity depended on the convergence of land and water traffic toward the Golden Horn. Its situation made it both a European and an Asiatic city, and events which brought disasters to other parts of Europe only served to strengthen the importance of the capital. Thus when Western Europe was cast into intellectual gloom by the invasion of northern barbarians, Constantinople remained the seat of the highest civilization of its time. Later when the Mediterranean was infested by pirates—Norsemens or Africans—trade was diverted to land routes which met at Constantinople. Even the loss of Syria and Egypt by the Roman Empire raised the fame of Constantinople as a commercial center, for the trade between Europe and the East which had passed into the famous centers of these two provinces now flowed naturally towards Constantinople.

The transfer of the Roman capital to the shores of the Bosphorus by Constantine was significant. It implied that Asia was acquiring greater importance than Africa in the Roman world. The ties that bound the two continents to the great European Empire were economic. By the 4th century Africa had been drained of its resources. Commerce and the technical knowledge of the day were unable to continue dealing at a profit with the Black Continent. New fields of exploitation were sought, and Asia began to occupy the chief place in the minds of Roman leaders.

Prior to the occupation of Constantinople as imperial residence the Roman Empire had been a political entity which symbolized the unity of the Mediterranean region. Rome, admirably situated at equal distance from the eastern and western ends of the inland sea, had become mistress of the world by virtue of the advantage of geographical position. The wealth of Africa was the foundation on which the power of the Roman capital rested. The foundation was undermined by the activi-

ties of the empire's fiscal agents, men who acted merely as the agents of masters in Rome. Constantine realized the tottering condition which the mainstay of the empire had attained. His determination to keep closer watch on the revenues from Asia was practically forced upon him by existing conditions.

The value of Constantinople's site asserted itself soon after the foundation of the new city of Constantinople. This event had a disastrous effect on Alexandria and Rome. The difference of language saved the Latin city, but Alexandria, which hitherto had occupied the first place in the Greek intellectual and religious world, lost its rank as soon as the supremacy of the Byzantine capital was established. The Bishop of Alexandria, who was the recognized head of the Greek Church, saw his prestige and authority transferred to the Patriarch of Constantinople. With the decline of Greek life in Alexandria, the city was abandoned by the scholars and students who had been accustomed to gather in its learned institutions. Their studies were resumed in new reunions along the banks of the Golden Horn. Likewise all the Hellenistic tendencies and ideals of Asia Minor were abandoned in their famous centers—Antioch and Ephesus—only to be replaced by the revival of thought and active life which by the 5th century marked Byzantine life.

A history of Constantinople is therefore fundamentally the account of the results of a convergence of roads. The wealth of continents poured into the city placed at the junction of world highways. Constantinople became a community of merchant princes and of captains of industry of various nationalities. This is the spectacle afforded by an intimate insight into its society during Byzantine times. For a time the city's triple wall swept around the world's best-supplied warehouses. The harvests and products of great plains north of the Black Sea, consisting chiefly of wheat and other cereals, were collected and stored in Constantinople. Thither also were sent Asia Minor's varied products. From Spain and Italy, from Germany and Russia, from India and Cathay, merchandise commanding high prices reached Constantinople partly for consumption, but mainly for redistribution. The northern lanes of traffic drew the furs, the slaves, the honey, and the wax of Scandinavia and Russia. With the currents of the Black Sea flowed a steady stream of spices, dyes, and gems found in remote corners of

Asia. Caffa, Tana, and Trebizond were the Black Sea harbors where caravan goods were transshipped to Constantinople. Arabs, Armenians, and Persians acted as gathering middlemen for the merchants of Byzantium, while the Slavs and Teutons of the wide Danube lane played the part of the distributing agents.

Gradually after Constantine's time, the silks, gums, and dye-stuffs of India were supplied to all of Northern Europe, as well as to a great part of the western districts of that continent by Byzantine merchants. The history of adventurous Byzantine navigators remains to be told. We know at any rate that by the 11th century, the Byzantine merchant navy occupied the first rank in numbers. The fact is that Byzantine emperors had always shown great interest in the Empire's navy. This explains why Scandinavian, Teuton, or Anglo-Saxon adventurers could always rely on finding employment as sailors in Byzantium.

Society in Byzantine Constantinople reflected the peculiar geographical situation which affected the destiny of the city. The ease with which commerce and industry could be undertaken at this center accounts for the creation of a wealthy and powerful Byzantine 'bourgeoisie.' This element was the mainstay of the Byzantine treasury. It was possible to tax its revenues and Byzantine government officials never neglected this opportunity of increasing state receipts. Finlay reminds us that taxation yields little where nobles and serfs constitute the only strata in the population.² In such a state opposition above and poverty below will thwart the revenue-collector's efforts. A trading community, however, is the very foundation of power. Much of the civil and military superiority of the Byzantine Empire as well as its prestige depended on the tireless activity of the merchant class in Byzantium.

Of the great fortunes accumulated in the days of active trading not a vestige has survived. Constantinople, buffeted by the strongest gales of history because of its site, is unlike other capitals situated more fortunately away from the highway of world casualty. In these many wealthy residents trace the origin of their riches to medieval times. We must therefore seek a more tangible manifestation of the influence of this site.

² *History of the Byzantine Empire*, 717-867, p. 422.

This we find in the art which graces the city's monuments. To follow the evolution of Byzantine architecture is to trace the growth of a style which has culled from East and West alike and which, while finally reaching the distinctive stage which we call Byzantine, nevertheless resumes in itself a blend of splendid conceptions originating in Asia and Europe.

The single example of St. Sophia, where radiant glory and pious fervor are joined, will illustrate my thought. The basilica of Greek-Roman origin here underlies the cupola transplanted from Asia. Not only does the union of the two produce a characteristic Byzantine style, but each of these features have undergone modifications suggested by the creative genius of Byzantine architects. Thus the straight line of Roman basilicas is changed into a polygonal or curved outline, while the dome is eventually made to rest on the famous pendentive of Byzantine architecture. Through this combination the pomp of Asia and the piety of Europe's Christianity were first brought together upon a site eminently indicated by nature for this union. It was no accident, but the unfolding of natural progress. In St. Sophia there is more than a concrete edifice of stone and marble. The noble sanctuary is the symbol of an idea suggested by the site over which it rises. By its dominating position Constantinople had become the capital of Eastern Christianity. Its mission was to replace pagan by Christian ideals in Eastern lands. With this end in view it was customary to exact attendance of princes and ambassadors at the divine celebrations held in the cathedrals of the Byzantine capital. All the beauty that fancy could create was requisitioned in order to impress foreigners with the greatness of a religion whose recognized head was the Byzantine Emperor. In this sense St. Sophia as well as the marvelous beauty of its interior decoration are products of the site we are investigating.

One effect of the convergence of natural routes at Constantinople is illustrated by some of the conditions which marked the trade intercourse between Russians and Byzantines. In the 10th and 11th centuries trading between Russia and Byzantium had acquired importance. But let us not forget that the transactions were almost always ratified at Constantinople. Thither came the Russians to settle particulars regarding their trading. The Greeks rarely went to Russia. In other words, owing to

its splendid position Constantinople had conferred upon its residents the inestimable advantage of being able to wait for customers in their own shops without having to resort to the fatigues of travel in search of new markets. What was true for Russian traders was equally customary with merchants of other nationalities. But without such a privileged position the great city could never have attained the position of world emporium and clearing-house which made it so conspicuous in medieval history.

To call Constantinople a European city is a misnomer. The ties that link the capital to Asia have at all times been firmer than any bond with Europe. Having emerged from the period of provincialism which narrowed the outlook and interests of its inhabitants to their immediate neighborhood, and having become mistress of the Eastern Empire, the city at once assumed the position of leadership which was the appanage of its splendid situation. It was on Asia, however, that she drew for the maintenance of her splendor and prestige. Asia Minor and the shorelands of the Black Sea abounded in natural wealth which was transferred in time to the capital city. Without Asia, Constantinople could never have played the glorious part which is hers in history. Asia's claim on her is as great as that of Europe.

The number of Asiatics at large in the city's streets suffices to betray the strength of Asia's hold over Constantinople. To-day, as in the past, there are more Asiatic residents of Constantinople than European. Garments of varied hues and patterns, everyone a memento of the past, predominate over the severe and less attractive attire of Western style. But the West is coming into its own, unfortunately for the artist perhaps, for year by year one sees more Asiatics discarding the clothes copied from models handed down by their fathers.

Perhaps the chief reason of Asia's attraction for Constantinople will be found in the fact that back in the early years of the city's existence the highest civilization flourished on the Asiatic mainland, whereas a vaguely known barbarian world occupied the territory north and east of the Balkan ranges. This Asiatic influence has been unfortunate for the mentality of Constantinople's citizens. It made the Byzantine mind partial to the ideals of Asia. And the world seen through Asiatic

eyes, be it Anatolian, Chinese, or of any intervening type, never was reality. It is fancy's creation robed in the garment of desire or hope. It brought the spirit of fatalism, that is to say of laziness, within the triple circle of walls raised by Theodosius. It has kept the matter-of-fact and logical mind of the West from obtaining the ascendancy in the city and hence throughout the length and breadth of territory which acknowledged the capital's rule.

A closer view of the site of the great city reveals the natural strength of the position. The city spreads in the shape of a triangle whose base on the west extends from the Golden Horn to the Sea of Marmora. Both the northern and southern sides contain numerous small bays which were utilized as harbors in Byzantine times. The apex of this triangle, a hump of pleasant green, is known as Seraglio Point and is the oldest section of the city. It was the site on which the Akropolis of pre-Roman days was built. Here the onlooker's sweeping gaze embraces the splendid sight of the Bosphorus, Golden Horn, and Sea of Marmora seen together.

As a harbor the Golden Horn has ancient fame. A chain across its mouth along the line of the first of the modern bridges closed it at will in medieval times. By its depth and the large area it covers it affords to-day a harbor in which the navies of the world can gather together. For beauty and practical advantages the site can be compared to no other, for it is at once city and country, river and sea, valley and hill, garden and grove.

Constantinople, like Rome, had its seven hills. And the ancients who had a keen eye for majesty and dignity made good use of these eminences and crowned their summits with notable edifices. Proceeding from east to west, we observe that the easternmost hill was converted into a pedestal to support the seraglio, St. Sophia, and the mosque of Sultan Ahmed. The Hippodrome also ran lengthwise across its ridge. The valley which separates it from the next hill is the winding uphill road which runs from the outer Golden Horn shores past the Sublime Porte to St. Sophia. The mosque of Nouri-Osmanieh is built at the top of this second hill. Close by and still on the same eminence rises the porphyry column of Constantine the Great, better known as the Burnt Column.

From this second hill the height of land continues to the third through a ridge which overlooks the valley dividing them. The valley may be remembered as the one in which access is had to the Grand Bazaar. The third hill is crowned by the imposing mosque of Suleyman the Magnificent. Here also rises the ancient palace of the sultans which later became the Seraskerat, or War Office.

The aqueduct built by Valens crosses the next valley. Then comes the fourth hill with the mosque of Sultan Mohammed the Conqueror at its top. The fifth contains the mosque of Sultan Selim. The sixth hill is associated with the names of Byzantine Emperors rather than of Turkish Sultans. It was once known as the hill of the Blachernae from the name of the palace which occupied the spot. The seventh is the Xerolophos, or Dry Hill. On it are found to-day the quarters known as the Alti Mermer and Psamathia.

But if the site was open to the traffic of the world, it was also one of singularly difficult access in the last stretches of the roads which ended at its city gates. I must lay stress on this geographical combination, for it is the very foundation of the strength and influence of Constantinople. The triangular area which I have just described was partly encircled by a natural moat which proved more than once impassable to attackers. The enemy coming from Asia found that the width of this moat had often caused the failure of the city's foes. If they advanced from the landward side, a short line of formidable walls extending in a triple row from sea to sea arrested their progress. Beyond the sea and land walls nature had provided a series of advanced outposts of defence which have proved their worth to this very day. On land in Europe, the Balkans formed a mighty bulwark open here and there along defiles which could be conveniently defended. In Asia Minor, the hills of Bithynia and of the Trojan district dominated the approaches to the city. What such a site has meant for the city may be gathered from the fact that even the Turks, splendid soldiers as they were, failed to conquer the city during their westerly spread in the fourteenth century. Fully one hundred years were to elapse after their conquest of Eastern Balkan territory before they were able to become masters of the city.

By water the entrance of the Dardanelles and the Black Sea mouth of the Bosphorus—both narrow, winding, and swept by

currents—seemed ideally devised for the protection of Constantinople. The whole world has witnessed the failure of a splendidly equipped modern army to turn the Dardanelles by land. Why? Because of the line of hills rising in steps above the exceedingly narrow strip of shore which surrounded it. This narrow strip and the step-like hills explain why casualties passed the hundred thousand figure at this point in the recent Dardanelles campaign. Courage was of no avail, for the defenders merely waited with their death-dealing machines and killed their assailants by the thousand. On the Black Sea side conditions are even worse, for the rocky hills there rise precipitously out of the sea. Neither was landing attempted here.

Thus even in the gasps of Turkey's death has Constantinople's position added a short lease of life to the empire. The city, without which the entire edifice of Turkish imperialism would crumble to dust, cannot be approached by sea. A short defile, narrow and tortuous, the Bosphorus forbids access to hostile ships at one end. A longer strait, the Dardanelles, equally impassable (as events have shown), guards the other end. Currents here favor the besieged, and floating mines scattered over the flowing waters become a deadly menace to attacking invaders.

Besides its advantages as a trading-center Constantinople was therefore the ideal site from a military standpoint for an empire which was constantly engaged in border fighting. As rulers whose dominions extended over Europe and Asia the Byzantine Emperors could not find a better location from which they could march out at the head of their armies or to which they could retire with greater convenience. To-day in European general staff colleges it is customary to teach that Constantinople is the apex of two triangles whose bases lie in Europe and Asia respectively. The base of the European triangle is the line drawn from Monastir to Pirot. In Asia the base line extends between Erzerum and the Cilician Gates.

A remarkable and persistent influence of the site is presented by the cosmopolitan character of the city's population. That representatives of both continents were fated to meet and live side by side at the border zone was inevitable. And society through the ages in Constantinople has been made up of elements drawn from Europe and Asia. Greeks, Turks, Armenians, Arabs, or Slavs of different nationalities all descended from ancestors that settled within the imperial precincts in times

immemorial elbow each other to-day with no less variety than at the time of Constantine, Justinian, or Basil. The city is a meeting-place of men and ideas which have never blended to produce a uniform type because on such a site the individuality of each element was maintained by a constant flow of new arrivals. The Londoner or Parisian of our day is an Englishman or a Frenchman. A Washingtonian is an American. But in Constantinople, the scion of a very old family may be an Armenian, a Greek, a Turk, a Russian, or an Italian.

Of the influence of that site in the history of the world much may be said. The achievement of Byzantine Emperors for the cause of civilization—no mean contribution—was made possible because the site of their imperial residence afforded them protection against the destructive forces of barbarism which constantly threatened to arrest the march of progress. In the shelter of that site Constantine broke loose from the nefarious conservatism of pagan Rome and consecrated the city and empire to the cause of Christian ideals with which the cause of progress was at that time one. There also Justinian laid the foundations of a legal organization which has stood the test of time. Later the Iconoclast Emperors stayed the conquering march of Mohammedan soldiers in the East at the time when the Christians of the West were saved at Poitiers. The line of Macedonian sovereigns broke the power of the wild eastern hosts in the pay of the powerful Bulgarian kings. Even the Commeni, who had to fight against western and eastern barbarians, owe much to the site. And if the Paleologi fell at last, history has recorded the odds against which they fought and the indifference of Western nations to their fate.

In estimating the future importance of this remarkable site it is necessary to remember that the tide of western civilization is now flowing eastward. Overland traffic between Europe and Asia, that is to say between European centers of industry and the Asiatic markets of consumption situated in the densely populated regions of the eastern continent, is bound to pass through Constantinople because the city lies on the path of shortest distance between the two centers. Even the air line which we must henceforth take into account passes over Constantinople in its shortest stretch between populous India and industrial Europe.

As in the past, the future political status of Constantinople is bound to be affected by such relations. To discuss this theme beyond the geographical problem in this paper is not my purpose. I shall therefore confine myself to pointing to the natural boundaries available in case Constantinople should be turned into a neutral city under international control, as has been suggested on various occasions.

To internationalize the site of Constantinople implies internationalization of the elongated belt of waterways comprising the Bosphorus, Marmora, and Dardanelles. It is of the utmost interest to note that this region is a well-defined unit which, on the European mainland, extends westward so as to include the valley of the Erghene. In Asia its boundary is even better laid off by the valley of the Sakaria river and a long fault line which may be distinguished on a map by a string of lakes. Advantage ~~could be~~ taken of these geographical features for the establishment of a neutral zone with Constantinople as headquarters.

But whatever the fate in store for Constantinople, the fact remains that from the time of Constantine's selection of the city as imperial residence to our day, the history of Constantinople has more than once been a summary of world history. It is safe to predict an equally momentous future for the city as long as the value of its site to the inhabitants of the eastern hemisphere shall remain unimpaired.

INDIC AND INDIAN RELIGIOUS PARALLELS

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The word 'Indian' in my title is intended as an equivalent of the uncouth 'Amerindian,' a monstrosity which I find it impossible to pronounce with equanimity. It is not my intention to point out what is common to all or to much of the savage world, such as belief in ghosts, in another world, in the mana of the inanimate, in the Hindu forms of Squantum and Tantum as shared under different names with sundry peoples, but to indicate closer resemblances between the Indians of the East and of the West. Not often do we find religious groups so isolated. All the religions of antiquity were more or less fused. Sumerian, Babylonian, Egyptian, Greek, Roman, Celtic, the general foundation of European superstition, even the animal-gods of Africa and the Western origin of Japanese and also of Chinese culture—these are debatable topics bristling with queries. And now too we find even India invaded and the Persian conquest anticipated by the Assyrian; nay, even the Seven Stars that used to shine so naturally above the Panjab are at present marked 'made in Babylon.' But thus far the genuineness of Indic invention has not yet been impugned to such an extent as to make it probable that our Redskins ever provided India with its religious beliefs, while only a few daring souls have ventured to urge that the primitive culture of America derives from the reckless merchants of Egypt or from the devoted missionaries of the Buddhist church. We have then an unusually fair field or two fair fields in which to study religious flora and fauna presumably of independent creation. That no sane historian believes in a common root or seed of the growths found therein, this fact makes what in itself would be merely an interesting collection of parallels a valuable exhibit, in that it demonstrates how near and yet how far may be religious phenomena alike in form yet diverse in origin.

A parallel which elucidates a custom may well serve as a beginning. In Sanskrit literature we have numerous references to the vermilion line traced on a woman's head at the parting of the hair. In epic and drama it is always spoken of as a mere

adornment. As such it figures in the poetical description of dark clouds parted for a moment by a vivid streak of lightning 'like the vermilion line between a woman's cloudy hair.' In America, as an introduction to the parallel I would remind you that among the Siouan tribes it was customary at certain stages of a girl's life to paint red dots upon various parts of her body and that a dance with prayer was performed at each dot. In other words, this equivalent of tattooing¹ was a religious act, performed obviously with the intent of guarding the girl by means of the red paint. Now, however, the perfect parallel is found among the Blackfeet and Crow Indians, whose women were all adorned (note that it is here an adornment only) with a vermilion line drawn from the forehead to the crown at the parting of the hair. When we consider the religious significance of red paint as applied to village idols in India it is almost inevitable to conclude that the Indic and Indian means of beautifying women had a similar religious origin and that the thing of beauty was originally intended as a safeguard forever. Yet even without any explanation it is rather interesting to find the Rani and the squaw adorned in the same way.

Speaking of hair, I am tempted to violate my own rule and touch on one belief not confined to Indic and Indian thought. Nothing in religion is so curious as the persistence with which old ideas, quite outworn and yet potent, survive. You all know how savages believe in a hair-soul, that is in a hair-power, a spiritual vigor implicit in hair, to express it in terms slightly in advance of the hair-soul belief. Many traces of this remain in India. The ritual use of hair, the prayer over the first hairs cut from a child's head, the hiding of hair, etc., all hark back to this superstition. In America the same superstition takes many well-known forms. The Indians of Mexico and Peru offered the eyebrow-hairs in casual sacrifice to the Sun-god. Hair burned upon the mountain-top was offered to the sun in divination. In the North, the scalping of a foe was primarily to control the hair-soul and it was believed that the scalped Indian remained in the next world subject to him who held the scalp. That is the reason that the scalper not only took the scalp, but wore it. It was not a decoration but a deed of ownership; whoever held it possessed the soul of the scalpee. Now

¹ Regular tattooing was practised on the Peruvian littoral.

this belief in hair-power was still strong enough among some of the Northern tribes to give the chieftainship to the man with the longest hair. Some of the Mandan Indians grew hair six feet long and when an election took place this hair sometimes grew a foot longer. It was suspected that horse-hair was often deftly interwoven with a hero's locks and on several occasions it was charged that a chief owed his election to his pony rather than to his own spiritual superiority. I think it is most probable that an unadulterated form of this belief lies at the root of the rule which prohibited an Aztec priest of the Sun-god from ever cutting his hair. As with Samson's hair, there is here a clear connection with sun-strength; in fact in Mexico sun-beams are called sun-hair and Uitzilopochtli as sun-representative appears as 'hair of the sun.' One parallel at least may be pointed out here. The different clans in the Peruvian state were distinguished by the way in which their hair was dressed, tressed, parted, top-knotted, tufted, etc., which is just the way the Indic clans were distinguished.²

Speaking of clans I would remind you of the decimal system of organization recommended in the Hindu law-books, in accordance with which a group of ten families or villages forms part of a larger group of a hundred, this of a thousand, and a general overseer is over all. So the Peruvian state is based on ten families, part of a larger group of one hundred, and this of a thousand. The priestly caste at the head has the privilege of not being obnoxious to capital punishment, just like a Brahman. But among the Chibchas or Muisca of Colombia there is a more remarkable resemblance. The high-priest is like a Buddhist Lama, secluded and too holy to touch earth; he belongs to an inherited hierarchy, though individually elected. The whole Chibcha constitution divides the people into four castes, priests, warriors, agriculturists (including traders and craftsmen), and helots or tributary nomads, almost an exact duplication of the Hindu caste-system. The priests are hereditary in the female line and act as shamans, judges, and executioners.

² In Peru, the first cutting of a child's hair was done by an elder relative, who used a stone knife. The Inca crown-prince's lock was first cut by the high-priest. In some South American states a hair-cut was a privilege and long hair was a mark of servitude, religious belief yielding to convenience.

The soul-problem touched on above raises the question whether the Indic and Indian views agree in any marked way. Besides hair-soul, as all students of lower religions know, there is a soul or power inherent in various parts of the body, notably in the saliva or spittle. (Thus in the Rig-Veda a girl preparing food for a god chews the grain first. The subject has been adequately discussed by L. von Schroeder. Now this chewing of grain in divine rites is found among our Indians. Among the Hopi, for example, there is a sacrifice of chewed grain) and the Peruvian *acca* is prepared by women who first chew and then boil and ferment it, because, as is expressly said in both cases, saliva is medicinal.) Another point in regard to the soul. The Northern Indian believes in metempsychosis in life, that is, a wizard becomes a wolf (were-wolf), but seldom believes that a dead man is reborn as an animal. Yet the dead are reborn as men, finding their growth-soul among the bones preserved for that purpose. Moreover the Dakotas believed that to become a wizard one must be born again four times in the same body, dreaming of gods between the times of reincarnation, and this seems to be a true theory of metempsychosis. I would say that though in theory according to Brahman belief a man may be reborn as anything, yet it is generally assumed that the reincarnation will be in human form. (In regard to the dead, they are not buried among some of the Plain Indians but hung upon trees or raised on primitive towers of silence, as were the dead Parsi and some Hindus (thus the Mandans and Siouan tribes generally). Mummification is not Indic, so I will not stop to explain the mummies of Peru, but I should like to compare the killing of objects put into the grave in Peru and India. The warrior's bow is broken in the Vedic burial hymn because it must be dead like its master; so in Peru all objects for the next life are killed or broken. The Peruvian widow also like the Hindu is expected but not formally required to commit suttee. Death is called the Shade in Peru, *Supay*, and this Shadow as god (to whom sacrifice is made) is like *Chāyā*, Shadow, as a name of Śiva (but cf. also Celtic *Scath* as a giant as well as Shade). Instead of gods carried into battle (this is common; they were wrapped-up images) such as *Mextli*, the Chibchas sometimes carried the mummified corpses of great warriors, as the Peruvian *Chancu* carried the body of *Uscovilca*, a former

hero. This seems to imply that the warrior was still potent, but it may have been merely to inspire courage. Sacrifice to the Manes is common to all tribes and requires no comment, but the Digger sacrificed to a dog as ancestor; he was a Dog-man, such as is also found in India. Of dogs in hell or leading to hell, there are two, but not of the same race. The Aztec dog is black and the Peruvian is red.

A word may be said here of creation-myths. The Eskimos believe that woman was created from man's thumb, as Dakṣa in India is created from Brahman's toe, but there is no close resemblance. The creator and cosmic egg may appear in the story of Manco Capac, Great Man (cf. *Puruṣa*), and Mama Ocello, but Ocello is also understood as the moon. On the other hand the paired gods of the Hopi are like the androgynous deity of India. These pairs are usually the male and his female counterpart, like Indra Indrāṇī, but sometimes, as in Mexico, two brother suns are found. One of the most interesting parallels is that on the higher plane of speculation found in Mexico. As is well known, Brahman in India receives as creator little homage because he is no longer active. So in Mexico in the higher realm of theology there was a creator-god, but he received no sacrifice and generally he was identified with the national Uitzilopochtli or regarded as a god of medicinal power who sent and cured diseases. But children's diseases were caused by hags, who were in fact the ghosts of women dying in childbirth, and were associated with the god of war and lightning, so that these mothers appeared in the form of lightning-flashes. Now this is a perfect parallel to the Mothers accompanying Śiva. Their main function was to send diseases to children, just as in India, and they too were attendants of the god of battle and storm. Before leaving this Aztec pantheon I must mention Tezcatlipoca, who is the stern god of law and justice. He spies upon men and wanders about looking for those who disregard his laws. As good a parallel to Varuṇa as could be found, and no need to go to Babylon to find him!

To touch again upon the subject of personal markings, which I introduced above by accident apropos of the hair-parting, I would call attention to the resemblance between the sectarian markings of the devotees of Viṣṇu and Śiva, the one vertical and the other horizontal, and the markings on the figures of

Mexican gods, the agricultural gods having vertical and the hunting-gods having horizontal stripes. There seems, however, to be no inner connection in these practices, though there is a striking likeness, for Viṣṇu and agriculture and vertical lines may be said to make one group, as Śiva and hunting and horizontal lines make another. But apropos of women there is another curious coincidence. According to Hindu law a girl is married at 11 or 12 or younger and a man at 24 or 30. In North America the girl was married at 11 or 12 (in Peru at eighteen to twenty) and the man at twenty-four. At his initiation the Siouan boy had to stand on a stone while the priest prayed for his welfare to the four quarters as divine beings, Winds or Directions. Now the stone in this ritual is distinctly said to represent earth, and this reminds us that at her wedding a girl in India has to stand on a stone, which also as an emblem of firmness represents the earth.

The four divine Winds or Directions just mentioned are a perfect parallel to the Hindu four gods of the quarters, in regard to whom I have written elsewhere. The gods of the quarters or directions in India are of course subsidiary gods; they have been subdued by the greater gods of a higher cult. But they are old and in antiquity are very lofty gods, to whom are sometimes added two more, the god of the zenith and the god of the nadir. Now in America these gods were almost the only real gods acknowledged by the Northern tribes. For example, in the seventeenth century the Algonkins themselves said that they had only these four gods and him above. In some of the rituals again, the Hopi Indians added to the four the one below and the one above, just as the Hindus did. I need not remind you that the number four is interwoven with the whole religious ritual of America from Maine to Cuzco in Peru. The tree of life was a four-fold cross in Mexico, for example, which betokened weal in four directions, a svastika, and all the religious ceremonial turned about this number, circumambulations of the temple, the dishes to receive the sacrificial blood, the number of priests, etc., were fours or multiples of four. There can be no question but that the four chief Hindu gods of the old pantheon, Agni, Yama, Varuna, Indra, are really names given to the same four divine quarters as those of the American Indians. May I add an inconsequent note, on the subject of the tree of life? As

emblem of weal and hence of health, it was itself, this Aztec svastika, a quasi-divine thing, a sort of Aesculapius, and to it was made a sacrifice—of what? You will not be surprised to hear that it was a cock, almost the ‘cock of Aesculapius’ in Mexican form. The cock is the bird that announces the sun (as in the Avesta) and hence the bird of health; consequently a sacrifice to health is the cock. This association is reflected, very dimly I admit, in the association of the health-giving rain with the peacock in India. The direct parallel here fails, for the Hindu cock is the bird of the god of battles, obviously as a fighting bird.

I have intimated that whereas the Hindus gave gods to their four quarters, the Redskins simply deified the quarters without giving them divine names. But the impact of the higher faith has had an effect in Yucatan not unlike that in India. For in Yucatan the four direction-deities have not been rejected by the Catholic Church but adroitly incorporated into it as ministers of the Trinity and here not only are the four directions represented by four colors (this is general, though the colors are not always identical), but they have been named; the god of the east (red) is now St. Dominic; of the north (white), St. Gabriel; of the west (black), St. James; and of the south (yellow), Mary Magdalene. After this fashion has many an ancient deity been preserved beyond his natural retiring-age. You will remember that it was in the nineteenth century that Grecian peasants were still praying to the image of Demeter and perhaps at this very moment the girls of Sicily are singing that exquisite hymn to Venus recorded but lately by Professor Ridgeway’s friend:—

O santa Venera,
Sì bella, sì tenera,
Che in Paradiso
Tripa avanti Gesù!

There is to me something very alluring in this conversion of Venus into a saint dancing before Gesu and in turning the gods to whom our Indians used to pray into such saints as Gabriel and Mary Magdalene. Just so, we may be sure, four gods of direction, functioning as such or as winds, were worshiped first in India, until later they renounced their anonymity in favor of Agni, Indra, and the other gods who had names but were originally without relation to the four points or winds. You

may ask, perhaps in jest, whether the intrusion of Mary Magdalene is not something quite without parallel, a feminine element not recognized in India. But I shall point to Bhartṛhari, who sings of a Dikkanyā, or feminine guardian of direction.

This is as good a place as any to compare the gods themselves. There is no doubt that the Aztecs are merely a southern wave of Shoshonean Indians and their gods are in fact only gigantic figures already known in smaller shape in the North. But I shall not go into details here, nor point out the closer similarity between Indra and Tlaloc, Yama and the god of Mictlan, Varuṇa and Viracocha (in Peru), and Agni and the 'old old' god of fire, since these nature-gods are in part not unlike other foreign gods having similar functions. Yet there are a few points in respect of the gods which I cannot leave unnoticed. Tlaloc as god of war and fertility has priests dressed as frogs who to induce rain have to imitate frogs and quack like them. The Hopi have a frog-drama of fertility, where reproduction is drastically represented. In Peru the summer solstice (December) is introduced by a purificatory flogging and a tug of war on a varicolored rope of four colors. The Eskimos have a similar tug by men representing two kinds of birds, the issue of the strife being prophetic of the year. Finally there is the Tunja year-end feast, in which twelve men in red dramatize a dirge around one man in black, obviously an American lament for Adonis, as the year-contest is a drama of magical content for the assurance of a good year, probably of the same sort as the Bogota harvest-festival in which men appear in masks and animal-skins. In the Hopi performance the vegetation-god, Mūyinwu, is actually decked with corn and has the signs of sun and rain, and the dance around this figure is almost a maypole-dance.* Some of

* In the Oraibi Soyal ceremony (of nine days at the winter solstice) the mask is decorated with figures of frogs, imitation ears of corn-husks, red horse-hair, and eagle feathers. A sort of svastika-fringe runs around the top. The performing Katsinas talk in a disguised voice, imitate cohabitation, and make constant use of saliva and honey (spat from the mouth). One man represents a (sun-)hawk. A special figure images Mūyinwu (spirit of generation). The Star priest revolves the Sun-image, being baptized by the (representative of the) war-god, while a song is sung in honor of the feathered-serpent, Lölöekon, and the Sun-priest dances. The sacred *bahos* are sticks, marked as male and female, symbols and causers of all good luck but chiefly of fertility, which are finally deposited

these elements appear in the Hindu drama of Kṛṣṇa and Kāṁsa. To mention briefly a few points in connection with the other gods. The Hades of Mictlan is reached by traversing underground deserts, rough hills, winds that cut like knives, and four or nine streams. One passes to the next world over a log or a bridge made of spider-thread (Northern and Southern, respectively) and some of the Algonkins believe that the parting of the ways to good and evil worlds is revealed by a lightning-flash, while a spirit guides the good on farther to paradise, which, I admit, is rather Persian than Indic. Persian too, or Zoroastrian, is the fervent conviction of the Peruvian sun-worshippers expressed in the phrase, 'the army of the Incas is the army of the Lord (Sun-god),' though the spirit of the utterance infuses Indic thought as well. Of the fire-god I will say only that he is represented as black-green-yellow, that he hid in water (also in stone), and that the fire is solemnly renewed each year by all Indians, from the Sioux to the Peruvians, who had a solemn fire-renewal at Rimac every June. All these are Hindu Agni-traits. Further it is interesting to note the sacred character of the sacrificial straw. On the Plains this is usually of sage. Thus in the Cheyenne Fifth Paint the priest carefully spreads the sacrificial sage-bushes in four heaps for the four gods of direction and one more for the sun, on which the priest dances and others sing to the sun. Here, too, I must refer to the swinging-ceremony still retained by the Plain-Indians and called 'looking at the sun,' which I cannot doubt is identical with the sun-swinging ceremony of India.⁴ In America the Indian has hooks placed

in the Sun-house, after being first consecrated with meal and honey-saliva. They are usually made for cloud-deities; but sometimes for the dead who, gratified by this attention, will send good crops to the Hopi. The ritual smoking is chiefly for 'cloud-making.' Fasting, bathing, and prayer make part of the rite, in which the powdered hearts and intestines of slain enemies are used as magical fertility-powers. The number four is conspicuous in the ritual though the altar-stones are arranged for six directions (in color they are here yellow-north, green-west, red-south, white-east, black-zenith, variegated-nadir).

See Dorsey and Voth, *FCM Pub.* 53 (1901).

'The 'freeing of the horse' by the Pawnees is a sacrifice 'to the spirit,' possibly to the sun. The rite itself reminds one of the horse of conquest in India, but the animal is set free as a sacrifice and remains a sacred animal.

under the muscles of his back and swings all day or till he is exhausted. The idea of a sun-boat also appears in America (Algonkin) and it is tempting to see in this a survival of the swing, perhaps to connect it even with the Vedic sage's excursion in the boat or swing of the heaven-god.

It will not be necessary to refer to fertility-charms of the heart's blood (Aztec) nor to the fertility-goddess Mayauel, who rides upon a tortoise, as does Ayopechtli, the birth-goddess; but, in passing by other aspects of serpent-cult as vegetation-deity (the relation between serpent and fertility is too common to be useful), I would call attention to the thoroughly Indic notion connected with the winged-serpent Quetzalcoatl, who, 'coiled up as a snake, waits for the beginning of the new era,' exactly as Viṣṇu sleeps on his coiled-up Nāga. There is in Quetzalcoatl a Messianic idea that he will return bringing a new age, although, as god of the east and so of the east wind he sometimes descends so low as to be nothing more than wind or breeze, and as a breeze he lulls to sleep and so is invoked by thieves to put to sleep the persons who are to be robbed, as the Vedic thief has a little prayer lulling his victims to sleep. This leads me to remark that the Indian conception of the divine voice is always that of a low indistinct murmur, an unintelligible voice of sacred character understood only by the priest. In India the voice of gods reflects their natural phenomenal character and is always a loud roar, unless indeed the god goes disguised. And the unintelligible murmur is rather that of the unintelligible ancient dialect. Before parting from the sun I may add that the primitive Aztec oath is one taken by sun and earth, and that the one who swears does so by touching earth and putting it to his lips. In India the one who swears also touches earth but I do not know that he 'eats earth.'

Only remotely connected with the gods is the teaching in regard to the five ages found in Mayan and Mexican cosmology but in a fragmentary condition. By comparing the different accounts it seems that there was a theory of five ages called suns. The fifth age or sun has no name; it is the present age. The four ages preceding this are called the ages of Earth, Fire, Air, and Water, but the Aztecs have incorporated their own gods as regents of these ages. The pre-Aztec conception appears to be that the first age was destroyed by beasts, who devoured the

men and giants of that Earth-age. Then came the Fire-age, destroyed by storms, when men became monkeys. Then followed the Air-age, when Tlaloc sent rain and lightning out of the air. This was followed by the Water-age of Chalahuitlicue, when a deluge destroyed the earth and men became fishes. Here again the five ages are rather Greek than Indic, but the conception of the final deluge (the deluge idea being pan-American) is that of the end of the aeon familiar to Indic thought. Also the idea that the gods are swept away with the end of the age is reflected in the anxiety with which the end of the calendar cycle is looked upon. At the close of this (fifty-two years) there is the greatest fear lest the sun may not rise and services are held, directed to the continuation of his existence. By the way, it may be mentioned also that the Hindus believe that the gods go away every year and for a season the world is god-less. So too in Peru there is an anxious moment called 'Return of the gods,' when the gods, who all have been away somewhere, are returning. In September there is a mark discovered on a heap of maize put there for this purpose, and when the priest discovers the 'foot-step of the god' great joy follows with a drunken orgy, for the gods may end with the age and no man knows when that shall be.

This drunken orgy is, as in India, part of a divine service. Communion with the Indian god was obtained through intoxication, as it was obtained also through eating the victim identified with the god. The intoxicating octli was itself a divinity like Soma, and when in Colombia, for example, on a pilgrimage (for pilgrimages to holy watering places were as common as in India) a man got so drunk as to die, he was regarded as having sacrificed himself and became a sainted character. Only in one respect the Mexican differed from the Hindu, for in Mexican Tarascan we are told that divine intoxication was also induced by smoking!

Speaking of communion with divinity I should like to call attention also to the proxy gods of Mexico and Peru in the shape of dough-images like those eaten in lieu of the animal victim by the Visnuite. At certain divine festivals images of the Aztec gods, for example, were made of dough, and when the image had been shot to pieces the dough-fragments were devoured as pieces of the god. The communion by intoxication

seems to be rather that of the supposedly divine exaltation than by drinking of the divine blood, and this is substantiated by the parallel use of tobacco, the 'communion' here being necessarily that of ecstasy implicitly understood as of divine origin.

In Peru religion was rather more elevated than in the North. Thus the baptism of the Northern Indians (like that of the Hindus) became total immersion and so the intoxicant itself became a divinity. Here too we have the only approach to a trinity, not like ours but quite like that of India, for just as Brahman, Viṣṇu, and Śiva represent only different sectarian and eventually different geographical conceptions of one highest god, each highest being then equated with its sectarian-geographical rival, so in Peru the great god was really a combination of the Incas' Sun-god as highest god, with the highest god of the littoral, Panchacamac, and the highest inland god of the Quichuas, overcome by the Incas, the lake-god Viracocha. It is to this Viracocha-Panchacamac as at once creation-, water-, and sun-god that the most intellectual Peruvians prayed as to the Supreme Deity, generally invoked by the Peruvian Inca as Viracocha. May I close with citing some of the verses addressed to this god, not without an implicit question as to whether, if they were found in India, we should not think it necessary to refer them to a Babylonian origin?

'O Viracocha, Lord of the universe, whether thou art male or female, lord of reproduction, whatsoever thou mayest be, Lord of divination, where art thou? God above, god below, god all around, thy throne and scepter splendid! Oh hear me, whether from the sky above, or from the sea beneath, or wherever thou mayest be. Creator of all the world, maker of all men, lord of all lords, my eyes fail me, longing to see thee; for the sole longing to know thee. O might I behold thee, might I but know thee, might I understand thee! But do thou look upon me, for thou knowest me. The sun and the moon, the day and the night, the summer and winter—verily thou hast not ordained them for naught; but they travel in order to their places, as thou, O my god, hast assigned them; they come to the end that thou hast determined, going whithersoever thou pleasest. Thou holdest the royal scepter (thou art my lord); hear thou me; choose me; keep me from weariness, save me from death.'

So also cries the Vedic poet, 'O would that I might see my

god!' and he, too, admires the unceasing procession of the days and seasons.

A bit from another hymn: 'Wilt thou make known to me who thou really art? Art thou what I thought thee, or art thou a phantom, a thing that makes fear? O could I know it, O could it be shown me! Thou who hast made me of earth and of clay, look thou upon me; old am I, dying; but thou art my maker.'⁵

Here the parallel is not verbal, but this and the first extract express the tone of those Vedic hymns which are now referred to the West with the idea that they are too lofty for India's thought. I too would refer to the West, but much farther West than Babylon, and refer not the Vedic hymns, but those who think that an Indian (or Hindu) may not also have ideas and emotions and the use of language similar to that of other people when religiously exalted.

This does not imply that it is not quite legitimate to make comparisons when connection is otherwise probable; only that it is temerarious to base connection even on a close similarity.

⁵ Sir Clements B. Markham, *The Incas of Peru*, 1910, p. 100 (from the translation of Miguel Mossi of Bolivia, 1892).

BRIEF NOTES

Indra and other Gods of War and Fertility combined

As a note to my article 'Indra as God of Fertility,' *JAOS* 36. 242-268, I should like to add an example or two of similar deities and at the same time complement the matter of Indra with an account kindly furnished me by Sir George Grierson, of the modern position in Hindu folklore of this husband of 'Indra-rānī.'

In American mythology there are numerous examples of gods of thunder and lightning functioning as fertility-gods. Indeed this may be said to be the normal rôle of such deities. The peculiar war-god of the Aztecs is, to be sure, interpreted as a sun-god, Uitzilopochtli, but an older god than this Aztec was the Nahuatl Xipe, the yellow god later regarded (because yellow) as the god of goldsmiths. Before his office was so restricted he was the god of the yellow grain, but at the same time he was a god of war. For this reason his sacrificial victims were made to perish by a kind of gladiatorial combat; but when dead their hearts were spread on the ground as fertility-charms. Then again the Nahuatl Tlaloc is both god of thunder and lightning and fertility-god and the Mayan Chac, who almost duplicates Tlaloc, is god of thunder and fertility and also war-god, whose feasts however remain fertility-festivals, in which a dog's heart, sacrificed to the god, is magically treated for rain.

In Peru, Inti-allapa or Illapa, as thunder and lightning, carries a club, a sling, and a stone, and his fertility-stones are found all over the country. Like other gods of this sort he is a mountain-god. The raging storm with the hissing lightning easily develops the idea of a war-god, but the rain and the hissing snake, which regularly represents lightning, as easily connect this war-god with fertility. Or rather, the god of fertility appears in the form of a war-god from the beginning. Hence Mars is both at once. It has occurred to me that the Irish Fomorach might owe their doubtful nature to this fact. One school interprets the Fomorach as gods of storm and death; another insists upon it that they are not death-gods but fer-

tility-gods. Why not both in one, as in Germany Woden was god of death and of fertility?

Under date of February 12, 1917, Sir George Grierson writes that, in Behār, village folklore associates Durgā with 'the seven Indras' as their sister. In the cycle of ballads about Lōrik, the hero-son of Durgā, she is represented as making them impotent, that is, depriving them of their natural function as fertility-powers. Durgā in this tale and elsewhere is the goddess who causes impotence. The Indras appear always as a group and are not individualized; their wife is 'Indra-rāni, evidently a corruption of Indrānī.' It is pleasant to learn from the same communication that Sir George Grierson hopes some day to edit and translate this Lōrik cycle.

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A Note on 'The Year's Work in Oriental Archaeology'

In this JOURNAL, vol. 36, page 348, I made the misstatement that the Egyptian Expedition of the Metropolitan Museum in New York had completed its work. This is not the fact; it has continued its work without interruption since the beginning of the war, and will so continue until further notice. The only change in the work is that the staff has been somewhat reduced. It was this fact, together with having heard that Mr. Lythgoe, in charge of the expedition, had returned to America, that made me believe that the work had been concluded, and that the publication of the results had begun. The following statement, coming from the Museum itself, should therefore be borne in mind in this connection:

'The Metropolitan Museum's Egyptian Expedition has prosecuted its main programme in Egypt without interruption since the war began, and is still at work, with its regular appropriation without any disposition to relax its activities. The only change that has been effected in the programme of the expedition since the war began was a slight reduction in the scale of the field work, owing chiefly to the fact that three members of the staff are in the British Army. As is well known, the Egyptian Department of the Metropolitan Museum has been engaged upon an extensive installation of its new Egyptian galleries, and has also embarked upon a very extensive publication programme, of which the first volume of one series has appeared. Thus the enlarged activities of the Egyptian Department of the Museum have been undergoing readjustment to keep pace with the field work.'

Since the publication of my article, an article has appeared to which I would call attention. In Part 1 of the *Museum Journal* of the University Museum in Philadelphia for 1917, there is published a paper by Mr. Clarence Stanley Fisher, called 'Excavations at Gizeh' and describing part of the work of the Eckley B. Coxe, Jr., Expedition to Egypt.

On page 352, footnote 5a, I make the mistake of saying that the volume by Bell is on the *site* of Sardis. This should be changed, of course, to a volume on the coins found there. In the series of the publications on Sardis it is Volume 11, part I. A review of this book will be found in the *Revue Archéologique*, Series V, vol. 4 (1916), p. 323.

STEPHEN BLEECKER LUCE, JR.

Museum, University of Pennsylvania

Postage Stamps of the Hijâz



$\frac{1}{4}$ QURSH



$\frac{1}{2}$ QURSH



1 QURSH

Only the briefest reports have percolated into this country of the newly formed independent state of the Hijâz, covering the Holy Territory of Mecca and Medina, the sacred cities of

Islam. That the new state is an accomplished fact is proved documentarily by postage stamps, cuts of which are here reproduced.

The legend at the top of each reads: *barid hijâzî*, 'Hijâz Post': in the center field is read *makkat al-mukarramat*, 'Mecca the Honorable.' At the bottom is given the denomination, quarter-qursh, half-qursh, and full qursh (*şâgh*, 'at par'). Qursh is the native Arabic word for the Turkish piastre. Further the Hijra date 1334 is given. The respective colors are green, red, and blue. The stamps are beautifully designed and executed.

J. A. M.

PERSONALIA

The death is reported of Dr. ROBERT GAUTHIER, Adjunct Director in the École des Hautes Études, Paris, at the age of 40 years. He died Sept. 11, 1916, from wounds received in action as a captain of infantry. An Iranian philologist, he was particularly known for his labors in the decipherment of the Soghdian dialect. He has left his family in distress, and a committee has been formed to aid them, the American section of which is presided over by Mr. Martin A. Ryerson, Chicago.

Prof. RUDOLPH E. BRUENNOW, Assyriologist and Arabist, Professor at Princeton University, died April 14, 1917. He became a member of this Society in 1911.

Prof. A. T. OLMSTEAD, of the University of Missouri and Secretary-Treasurer of the Western Branch of this Society, has accepted a professorship in History at the University of Illinois, Urbana, Ill., the appointment to go into effect with the next academic year.

THE STORY OF CHANG K'ÏÉN, CHINA'S PIONEER IN WESTERN ASIA

TEXT AND TRANSLATION OF CHAPTER 123 OF SSÏ-MA
TS'ÏÉN'S SHÏ-KI

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INTRODUCTION

The only complete translation of this Chinese text, which is as difficult as it is important, is the French version published by M. Brosset in the *Nouveau Journal Asiatique* (tome 2, Paris, 1828, p. 418-450) under the title 'Relation du pays de Ta-ouan.' Like Abel Rémusat's works on cognate subjects, it was an undertaking of great merit and quite a revelation to the scientific world of its time, ninety years ago; but a comparison with the original Chinese text will convince Sinologues that a new translation, incorporating the greatly modified identifications and interpretations of later research, is an absolute necessity.

In Brosset's translation, misconceptions of the author's statements are unfortunately so frequent that readers anxious for correct historical or geographical information must be warned not to take facts for granted without a thorough scrutiny of the original. To illustrate the dangers besetting scholars unfamiliar with the spirit of the Chinese language, there is perhaps no more instructive example than the first sentence in § 12. There it is said of Chang K'ïén, after his visit to Bactria, that, 'having sojourned there fully a year, he returned, skirting the Nan-shan' (cf. § 61: 'all along the Nan-shan'). Not grasping the meaning of the character *ping* (Giles, no. 9282), which, according to Chang Shóu-ts'íé's commentary of 737 A. D., is in this case to be read *pang* and has the sense of *lién* (Giles, no. 7109), 'to connect, to adjoin,' the very words of our *pang Nan-shan* passage being quoted in K'ang-hi (Rad. 117: 5, 12) from the *Shi-ki* as an example, M. Brosset translates: 'Après un an de delai, revenant au mont *Ping-nan*,' and adds in a footnote: 'Montagne dans le Tibet.' To guess the meaning of Chinese words from the

mere sound of a transcription without having seen the Chinese characters themselves is a dangerous experiment. Under the sound *ping*, Giles's Dictionary has no less than twenty characters with as many, or more, different meanings; and about as many characters are found under the sound *p'ing* with the aspirated initial. Among the latter we find *p'ing*, 'a plain' (no. 9311). This had apparently induced Baron von Richthofen (*China*, 1. 449, 454) to reproduce Brosset's translation with an additional note saying that 'der Name Ping-nan zeigt, dass das Gebirge im Süden eines ebenen Landstrichs lag.' The *Ts'ién-han-shu* in its biography of Chang K'ién (chap. 61, p. 2) contains a parallel passage, rendered correctly by 'following the southern mountains' in Wylie's version ('Notes on the Western Regions,' in *Journal of the Anthropol. Institute of Great Britain and Ireland*, vol. 10, Feb. 10, 1880, p. 67).

Wylie's timely and highly meritorious contribution toward a much neglected field of study, however, also contains a great many mistranslations, and should in important cases never be used without consulting the original Chinese text. Alexander Wylie, whose name, as Henry Howorth appropriately remarks (*op. cit.* 9. 53), 'is a household word wherever the study of China and its borders is prosecuted,' had been afflicted with a serious breakdown in health, ending in total blindness, just at the time when he yielded to Howorth's persuasion to take in hand his translation from the *Ts'ién-han-shu* for the Anthropological Institute. On the whole his work gives a fair idea of the subject; but a revision of it will, sooner or later, have to be undertaken.

It is necessary to use the greatest caution in consulting the late T. W. Kingsmill's paper, first published in the *Journal of the China Branch of the R. A. S.*, new ser. 14. 1-29, under the title 'The Intercourse of China with Central and Western Asia in the 2d Century B. c.,' and reprinted in *JRAS*, new ser. 14. 74-104, under the title 'The Intercourse of China with Eastern Turkestan and the Adjacent Countries.'

I have prepared the present new translation primarily in order to get a clear idea of the material which will have to serve as an introduction to renewed studies required for a second edition of my book *China and the Roman Orient*, published in 1885; and I now place it before students of Oriental history and

Chinese literature with the hope that they may improve my rendering and interpretation by their criticisms. Of Professor Édouard Chavannes' gigantic work, the translation of the *Shi-ki* (*Les Mémoires historiques de Se-ma Ts'ien traduits et annotés*, Paris, Leroux, tomes 1-5, 1895-1905), only five volumes have appeared, carrying us to Ssī-ma Ts'ien's chapter 47; and some considerable time may elapse before the publication of chapter 123 (cf. Chavannes' Synoptic Table of chapters in the *Shi-ki* and the *T'ung-kiên-kang-mu*, vol. 1, pages ccxlv-ccxlix of his Introduction). In the meantime I would refer readers to this scholar's admirable critical essay on the Chinese historian's work, in his Introduction, pages i-ccxlix. It will be seen from Chavannes that we are not able to fix the exact year of the death of Ssī-ma Ts'ien; but, in all probability, the great work which has earned for him the title of 'the Herodotus of China' must have been completed about the year 99 B. C. (p. xlv), perhaps even a few years later, to give him time for the despatch of ten embassies to the Far West after the appointment, in 100 B. C., of Ch'an-fōng as King of Ta-yüan. His father, Ssī-ma T'an, who, like himself, held the post of court astrologer, and who, besides having conceived the plan of writing the *Shi-ki*, may be responsible for certain portions of that work, had died in 110 B. C. (p. xxxiv, note). It follows, therefore, that he cannot have had any connection with that part of our Ta-yüan chapter which deals with facts lying beyond that date; and if Ssī-ma, the father, has been at all concerned in drafting portions of our text, his co-operation is not likely to have extended beyond its first half—say paragraphs 1 to 79 of the present translation—which I am inclined to look upon as being based chiefly on Chang K'ien's original report to the Emperor.

The Imperial Library of the Sui dynasty, to judge from its Catalogue (*Sui-shu*, chap. 33, p. 23 B), contained a book in one chapter entitled *Chang-k'ien-ch'u-kuan-chi*, i. e. 'Account of Chang K'ien's Expeditions Abroad,' which has apparently not been handed down to later periods, since it is not mentioned in the Catalogues of the T'ang and Sung dynasties, though Chang Tsung-yüan, in his *Sui-king-tsi-chi-k'au-chōng*, chap. 6, p. 46, says that the title is quoted in the chapter on foreign coins in Hung Tsun's work, the *Ts'üan-chi*, published in 1149 A. D. But this may be a secondhand quotation. I place greater confidence

in a reference to it in the *Ku-kin-chu* (chap. 3, p. 3), where the grape is referred to as having been introduced into China by Chang K'ién. From what the critics in the great Catalogue of the Imperial Library of Peking (*Tsung-mu*, 118, p. 4) say in connection with an analysis of the *Ku-kin-chu* text, this paragraph must have been written during the Tsin dynasty, about 300 A. D., when Tsui Pau, the compiler of the older and original text now known as the *Ku-kin-chu*, apparently preferred the *Chang-k'ién-ch'u-kuan-chi* to the *Shi-ki* as an authority. Since no author's name is mentioned in connection with the title, this *chi*, or memoir, may go back to Chang K'ién's own Report. It is, however, not quoted in the *Tsi-min-yau-shu* (about 500 B. C.; see my notice of it in *T'oung Pao*, 6. 436-440, and Bretschneider, *Botanicon Sinicum*, 1. 77 ff.), where a number of foreign plants not referred to in our *Shi-ki* account, such as the pomegranate (*t'u-lin* = Ind. *darim*), *sesamum orientale*, garlic, and *coriandrum sativum*, are distinctly stated to have been introduced into China by Chang K'ién. These and other cultural wanderings are there quoted from various older works, partly lost. Altogether Chinese literature throws considerable light on such subjects as have been treated for Europe in Hehn's *Kulturpflanzen und Haustiere*. A great many plants and animals were brought to China, either by Chang K'ién himself or by later expeditions sent by Wu-ti and his successors. Of these, certain breeds of the horse, also the vine and the lucerne, are the only ones referred to in the *Shi-ki*. Nevertheless, the one hero who must be looked upon as the pioneer of all that came from the West was Chang K'ién, whose return to China in 126 B. C. opened a new epoch in the development of Chinese civilization. Another work which, I am led to believe from Bretschneider's *Botanicon Sinicum* (1. 25), was at some time or other ascribed to Chang K'ién himself, is the *Hai-wai-i-wu-ki*, i. e. 'Record of Remarkable Things beyond the Seas.' The title does not, however, seem very descriptive of the account of an overland expedition like Chang K'ién's.

I have in the present translation and in the accompanying Index rendered the several geographical terms occurring in the Chinese text by their Western equivalents, as accepted by most present-day Sinologues, without entering upon the arguments which have in the course of a century brought about so many

important changes since the time of Deguignes and Rémusat. Readers may, however, consult with advantage two papers closely related to our subject: S. K. Shiratori, 'Ueber den Wu-sun-Stamm in Centralasien' in *Keleti Szemle*, 3 (1902), p. 103-140, and O. Franke, 'Beiträge aus chinesischen Quellen zur Kenntniss der Türkvölker und Skythen Zentralasiens' in *Abhandlungen der Kgl. Preuss. Akademie der Wissensch.*, 1904, Anhang.

The Chinese text reproduced is that of the K'ién-lung edition of 1739. It has been compared with the original by Mr. T. Y. Leo, late Secretary of the Chinese Legation in Washington, D. C., a son of Liu Si-hung, the first Chinese envoy appointed to Germany (Giles, *Chinese Biogr. Dict.*, no. 1299), and one of the few native scholars taking real interest in Western research in Chinese literature, to whom I am also indebted for many valuable suggestions in connection with my translation.

TRANSLATION*

(1) Our first knowledge of Ta-yüan [Ferghana] dates from Chang K'ién. (2) Chang K'ién was a native of Han-chung [in the south of Shen-si province]; during the period of K'ién-yüan [140-134 B. C.] he was a *lang* [a titular officer of the imperial household; a yeoman]. (3) At that time the Son of Heaven made inquiries among those Hiung-nu who had surrendered [as prisoners] and they all reported that the Hiung-nu had overcome the king of the Yüé-chi and made a drinking-vessel out of his skull. The Yüé-chi had decamped and were hiding somewhere, all the time scheming how to take revenge on the Hiung-nu, but had no ally to join them in striking a blow. (4) The Chinese, wishing to declare war on and wipe out the Tartars, upon hearing this report, desired to communicate with the Yüé-chi; but, the road having to pass through the territory of the Hiung-nu, the Emperor sought out men whom he could send. Chang K'ién, being a *lang* [cf. § 2], responded to the call and enlisted in a mission to the Yüé-chi; he took with him one

* The numbers in parentheses indicate the sections similarly numbered in the text as reproduced herewith.

Kan Fu, a Tartar, formerly a slave of the T'ang-i family, and set out from Lung-si [Kan-su], crossing the territory of the Hiung-nu. (5) The Hiung-nu made him a prisoner and sent him to the *Shan-yü* [Great Khan, or King], who detained him, saying: 'The Yüé-chi are to the north of us; how can China send ambassadors to them? If I wished to send ambassadors to Yüé [Kiangsi and Ch'ökiang], would China be willing to submit to us?' He held Chang K'ién for more than ten years, and gave him a wife, by whom he had a son. (6) All this time Chang K'ién had kept possession of the Emperor's token of authority, and, when in the course of time he was allowed greater liberty, he, watching his opportunity, succeeded in making his escape with his men in the direction of the Yüé-chi. (7) Having marched several tens of days to the west, he arrived in Ta-yüan. The people of this country, having heard of the wealth and fertility of China, had tried in vain to communicate with it. (8) When, therefore, they saw Chang K'ién, they asked joyfully: 'Where do you wish to go?' Chang K'ién replied: 'I was sent by [the Emperor of] China to the Yüé-chi, and was made prisoner by the Hiung-nu. I have now escaped them and would ask that your king have some one conduct me to the country of the Yüé-chi; and if I should succeed in reaching that country, on my return to China, my king will reward yours with untold treasures. (9) The Ta-yüan believed his account and gave him safe-conduct on postal roads to K'ang-kü [Soghdiana], and K'ang-kü sent him on to the Ta-yüé-chi. (10) The king of the Ta-yüé-chi having been killed by the Hu ['Tartars'; in this case the Hiung-nu], the people had set up the crown prince in his stead [in the *Ts'ién-han-shu* it is the queen who is appointed his successor]. They had since conquered Ta-hia [Bactria] and occupied that country. The latter being rich and fertile and little troubled with robbers, they had determined to enjoy a peaceful life; moreover, since they considered themselves too far away from China, they had no longer the intention to take revenge on the Hu [Hiung-nu]. (11) Chang K'ién went through the country of the Yüé-chi to Ta-hia [Bactria], yet, after all, he did not carry his point with the Yüé-chi. (12) After having remained there fully a year, he returned, skirting the Nan-shan. He wished to return through the country of the K'iang [Tangutans], but was again made a prisoner by the Hiung-nu, who detained him for more than a year, when the

Shan-yü died and the 'left' Luk-li [possibly Turk. *Ulugla*, 'highly honored'] prince attacked the rightful heir and usurped the throne, thus throwing the country into a state of confusion. At this time Chang K'ién, with his Tartar wife and T'ang-i Fu [i. e. Kan Fu, see above, § 4], escaped and returned to China.

(13) [The Emperor of] China appointed Chang K'ién a *T'ai-chung-ta-fu* ['Imperial Chamberlain'] and gave T'ang-i Fu the title *Föng-shi-kün* ['The Gentleman attending the Embassy'].

(14) Chang K'ién was a man of strong physique, magnanimous and trustful, and popular with the foreign tribes in the south and west. (15) T'ang-i Fu was formerly a Hu [Tartar; Hiung-nu?]. Being an excellent bowman, he would, when supplies were exhausted, provide food by shooting game. (16) When Chang K'ién started on his journey, his caravan consisted of more than a hundred men; thirteen years later, only two lived to return. (17) The following countries were visited by Chang K'ién in person: Ta-yüan [Ferghana], Ta-yüé-chi [Indosecythians], Ta-hia [Bactria], and K'ang-kü [Soghdiana]; there were besides, five or six other large adjacent countries concerning which he gained information and on which he reported to the Emperor in the following terms.

(18) *Ta-yüan* [Ferghana] is to the southwest of the Hiung-nu and due west of China, at a distance of about 10,000 *li*. (19) The people are permanent dwellers and given to agriculture; and in their fields they grow rice and wheat. They have wine made of grapes (*p'u-t'au*) and many good horses. The horses sweat blood and come from the stock of the *t'ién-ma* [heavenly horse, perhaps the wild horse]. (20) They have walled cities and houses; the large and small cities belonging to them, fully seventy in number, contain an aggregate population of several hundreds of thousands. (21) Their arms consist of bows and halberds, and they shoot arrows while on horseback. (22) North of this country is K'ang-kü [Soghdiana]; in the west are the Ta-yüé-chi; in the southwest is Ta-hia [Bactria]; in the northeast are the Wu-sun; and in the east Han-mi and Yü-tién [Khotan]. (23) All the rivers west of Yü-tién flow in a westerly direction and feed the Western Sea; all the rivers east of it flow east and feed the Salt Lake [Lopnor]. The Salt Lake flows underground. To the south of it [Yü-tién] is the source from which the Ho [the Yellow River] arises. The country contains much jade-stone.

The river flows through China; and the towns of Lóu-lan and Ku-shī with their city walls closely border on the Salt Lake. The Salt Lake is possibly 5000 *li* distant from Chang-an. (24) The right [i. e. western] part of the Hiung-nu live to the east of the Salt Lake as far as the great wall in Lung-si. To the south they are bounded by the K'iang [Tangutans], where they bar the road [to China].

(25) *Wu-sun* may be 2000 *li* northeast of Ta-yüan; its people are nomads [following their flocks of cattle], and have the same customs as the Hiung-nu. Of archers they have several tens of thousands, all daring warriors. (26) Formerly they were subject to the Hiung-nu, but they became so strong that, while maintaining nominal vassalage, they refused to attend the meetings of the court.

(27) *K'ang-kü* [Soghdiana] is to the northwest of Ta-yüan, perhaps 2000 *li* distant. It also is a country of nomads with manners and customs very much the same as those of the Yüé-chī. They have eighty or ninety thousand archers. The country is coterminous with Ta-yüan. It is small. In the south it is under the political influence of the Yüé-chī; in the east, under that of the Hiung-nu.

(28) *An-ts'ai* [Aorsi] lies to the northwest of K'ang-kü, perhaps at a distance of 2000 *li*. It is a nomad state, and its manners and customs are in the main identical with those of K'ang-kü. It has fully a hundred thousand archers. The country lies close to a great sea [*ta-tsö*, lit. 'great marsh,' the Palus Maeotis, i. e. the Sea of Azov] which has no limit, for it is the Northern Sea.

(29) The *Ta-yüé-chī* [Indoscythians] are perhaps two or three thousand *li* to the west of Ta-yüan. They live to the north of the K'ui-shui [Oxus]. South of them is Ta-hia [Bactria]; in the west is An-si [Parthia]; in the north, K'ang-kü [Soghdiana]. They are a nomad nation, following their flocks and changing their abodes. Their customs are the same as those of the Hiung-nu. They may have from one to two hundred thousand archers. In olden times they relied on their strength, and thought lightly of the Hiung-nu; but when Mau-tun ascended the throne he attacked and defeated the Yüé-chī. Up to the time when Lau-shang, *Shan-yü* of the Hiung-nu, killed the king of the Yüé-chī and made a drinking vessel out of his skull, the

Yüé-chi had lived between Tun-huang [now Sha-chóu] and the K'i-lién [a hill southwest of Kan-chóu-fu], but when they were beaten by the Hiung-nu, they fled to a distant country and crossed to the west of Yüan [Ta-yüan], attacked Ta-hia [Bactria], and conquered it. Subsequently they had their capital in the north of the K'ui-shui [Oxus] and made it the court of their king. The minority which were left behind and were not able to follow them, took refuge among the K'iang [Tangutans] of the Nan-shan, and were called *Siau-Yüé-chi* (Small Yüé-chi).

(30) *An-si* [Parthia] may be several thousand *li* west of the Ta-yüé-chi. (31) The people live in fixed abodes and are given to agriculture; their fields yield rice and wheat; and they make wine of grapes. (32) Their cities and towns are like those of Ta-yüan. (33) Several hundred small and large cities belong to it. (34) The territory is several thousand *li* square; it is a very large country and is close to the K'ui-shui [Oxus]. (35) Their market folk and merchants travel in carts and boats to the neighboring countries, perhaps several thousand *li* distant. (36) They make coins of silver; the coins resemble their king's face. Upon the death of a king the coins are changed for others on which the new king's face is represented. (37) They paint [rows of characters] running sideways on [stiff] leather, to serve as records. (38) West of this country is T'iau-chi; north, is An-ts'ai.

(39) *Li-kan* [Syria] and *T'iau-chi* [Chaldea] are several thousand *li* west of An-si and close to the Western Sea. (40) It [referring to T'iau-chi] is hot and damp. (41) The inhabitants plow their fields, in which they grow rice. (42) There is a big bird with eggs like jars. (43) The number of its inhabitants is very large, and they have in many places their own petty chiefs; but An-si [Parthia], while having added it to its dependencies, considers it a foreign country. (44) They have clever jugglers. (45) Although the old people in An-si maintain the tradition that the Jo-shui and the Si-wang-mu are in T'iau-chi, they have not been seen there.

(46) *Ta-hia* [Bactria] is more than 2000 *li* to the southwest of Ta-yüan, on the south bank of the K'ui-shui [Oxus]. (47) The people have fixed abodes and live in walled cities and regular houses like the people of Ta-yüan. (48) They have no great

king or chief, but everywhere the cities and towns have their own petty chiefs. (49) While the people are shrewd traders, their soldiers are weak and afraid to fight, so that, when the Ta-yüé-chī migrated westward, they made war on the Ta-hia, who became subject to them. (50) The population of Ta-hia may amount to more than a million. (51) Their capital is called Lan-shī, and it has markets for the sale of all sorts of merchandise. (52) To the southeast of it is the country of *Shön-tu* [India]. (53) Chang K'ién says [in his report to the Emperor]: 'When I was in Ta-hia, I saw there a stick of bamboo of Kiung [Kiung-chóu in Ssī-ch'uan] and some cloth of Shu [Ssī-ch'uan]. When I asked the inhabitants of Ta-hia how they had obtained possession of these, they replied: "The inhabitants of our country buy them in *Shön-tu* [India]." *Shön-tu* may be several thousand *li* to the southeast of Ta-hia. The people there have fixed abodes, and their customs are very much like those of Ta-hia; but the country is low, damp, and hot. The people ride on elephants to fight in battle. The country is close to a great river. According to my calculation, Ta-hia must be 12,000 *li* distant from China and to the southwest of the latter. Now the country of *Shön-tu* being several thousand *li* to the southeast of Ta-hia, and the produce of Shu [Ssī-ch'uan] being found there, that country cannot be far from Shu. Suppose we send ambassadors to Ta-hia through the country of the K'iang. [Tangutans], there is the danger that the K'iang will object; if we send them but slightly farther north, they will be captured by the Hiung-nu; but by going by way of Shu [Ssī-ch'uan] they may proceed direct and will be unmolested by robbers.'

(54) The Son of Heaven on hearing all this reasoned thus: Ta-yüan and the possessions of Ta-hia and An-si are large countries, full of rare things, with a population living in fixed abodes and given to occupations somewhat identical with those of the Chinese people, but with weak armies, and placing great value on the rich produce of China; in the north the possessions of the Ta-yüé-chī and K'ang-kü, being of military strength, might be made subservient to the interests of the court by bribes and thus gained over by the mere force of persuasion. In this way a territory 10,000 *li* in extent would be available for the spread among the four seas of Chinese superior civilization by communicating through many interpreters with the nations holding

widely different customs. As a result the Son of Heaven was pleased to approve Chang K'ién's proposal. (55) He thereupon gave orders that, in accordance with Chang K'ién's suggestions, exploring expeditions be sent out from Kién-weï of the Shu kingdom [the present Sü-chóu-fu on the Upper Yangtzi] by four different routes at the same time: one to start by way of Mang; one by way of Jan [both names referring to barbarous hill tribes on the southwestern frontier; cf. *Shi-kí*, chap. 116, p. 2]; one by way of Ssi [or Si]; and one by way of Kiung [Kiung-chóu in Ssi-ch'uan] and P'o [the present Ya-chóu]. (56) These several missions had each traveled but one or two thousand *li* when those in the north were prevented from proceeding farther by the Ti and Tsö tribes, and those in the south by the Sui and K'un-ming tribes [placed by the commentators in the southwest of Sü-chóu-fu], who had no chiefs and, being given to robbery, would have killed or captured the Chinese envoys. (57) The result was that the expeditions could not proceed farther. They heard, however, that about a thousand *li* or more to the west there was the 'elephant-riding country' called *Tién-yüé* [possibly meaning 'the Tién,' or Yünnan, part of Yüé or South China], whither the traders of Shu [Ssi-ch'uan] were wont to proceed, exporting produce surreptitiously. Thus it was that by trying to find the road to Ta-hia [Bactria] the Chinese obtained their first knowledge of the Tién country (Yün-nan).

(58) The original idea to penetrate from China through the country of the southwestern barbarians was abandoned, because, in spite of the heavy expense incurred, the passage could not be effected; but it was in pursuance of Chang K'ién's report regarding the possibility of finding a road to Ta-hia [Bactria] that attention had again been drawn to these barbarians. It had been due to Chang K'ién's knowledge of their pasture-grounds, when following, in the capacity of a subcommander, the general-in-chief sent out against the Hiung-nu, that the army did not fall short of provisions. For this the Emperor invested him with the title 'Marquis of Po-wang.' This was in the year 123 B. C. (59) When, in the following year, Chang K'ién took part in the Yu-peï-p'ing [about 80 miles east of Peking] campaign against the Hiung-nu in the capacity of a commander of the Guards under General Li [Li Kuang, according to *Ts'ién-han-shu*, chap. 61, p. 4] as commander-in-chief and the latter was blocked

by the enemy with considerable losses to his army, Chang K'ién failed to come soon enough to the rescue. For this he was liable to the penalty of death; but, on payment of a ransom, his punishment was reduced to degradation to the rank of a private. (60) In the same year China sent the Piau-ki general (Ho K'ü-ping) to conquer the western *ordu* [capital] of the Hiung-nu. He took several tens of thousands [of troops] and pushed forward as far as the K'i-lién-shan [a hill in the south of the present Kan-chóu-fu]. (61) In the following year (121 B. C.) the Hun-shö prince with all his people tendered his allegiance to China, and in the west of Kin-ch'öng [Lan-chóu-fu] and in Ho-si [in the west of Kan-su] all along the Nan-shan as far as the Salt Lake [the Lopnor] there remained no Hiung-nu. The Hiung-nu would from time to time come there to waylay travelers, but such visitations were of rare occurrence indeed, and two years later the Chinese forced their khan to retreat into the north of the desert. The Son of Heaven thereupon consulted Chang K'ién several times about Ta-hia and other countries, and since K'ién had lost his marquisate he submitted the following report:

(62) 'When your servant was living among the Hiung-nu, he heard that the king of the Wu-sun was styled *K'un-mo*, and that the *K'un-mo*'s father was [chief of] a petty state on the western borders of the Hiung-nu. The Hiung-nu attacked and killed his father, and the *K'un-mo*, at his birth, was cast away in the wilderness, where meat was brought to him by a blackbird and a she-wolf nursed him with her milk. (63) The Shan-yü [khan of the Hiung-nu] regarded this as a wonder and, having raised the child to manhood, made him a military leader, in which capacity he distinguished himself on several occasions. (64) The Shan-yü restored to him the people of his father and made him governor of the western *ordu* [city, or fortified camp]. On receiving charge of his people, the *K'un-mo* attacked the neighboring small states with tens of thousands of bowmen, gained experience in warfare, and, after the Shan-yü's death, withdrew his forces to a distant retreat, declining to appear at the court of the Hiung-nu. (65) The latter dispatched a force of picked troops to attack him, but, being unable to conquer him, regarded him as a spirit whom they had better keep at a distance and whom they would not seriously attack, though they con-

tinned to claim [nominal] jurisdiction of the Shan-yü over the K'un-mo. (66) Now the Shan-yü has recently been defeated by China, in consequence of which the Hun-shö prince's former territory has become deserted; and since the barbarians covet the rich products of China, this is an opportune time to bribe the Wu-sun with liberal presents, and to invite them to settle farther east in the old Hun-shö territory. Should they become attached to the Chinese as a brother nation by intermarriage, the situation would be in favor of their listening to our proposition, and if they do this, it would be tantamount to the cutting off of the right [i. e. western] arm of the Hiung-nu nation. Once we are connected with the Wu-sun, the countries to the west of them might be invited to come to us as outer subjects.'

(67) The Son of Heaven approved of Chang K'ién's proposal and appointed him a commander in his bodyguard as well as leader of an expedition consisting of 300 men, each with two horses, and oxen and sheep in myriads. He also provided him with gifts of gold and silk stuffs worth millions, and with assistant envoys, holding credentials, whom he might send to and leave behind in other nearby countries. (68) When Chang K'ién arrived at Wu-sun, he keenly resented the humiliation offered to him, the ambassador of China, by a mere king of the Wu-sun, K'un-mo, in receiving him in audience with court ceremonial like that adopted with the Shan-yü of the Hiung-nu. Knowing the greed of these barbarians, he said: 'If the king does not pay due respect to these gifts, which have come from the Son of Heaven, they will be withdrawn.' The K'un-mo rose and offered obeisance before the gifts, but all other ceremonies passed off as of old. (69) Chang K'ién explained the Emperor's ideas as follows: 'If the Wu-sun are able to move eastward to the country of the Hun-shö, China will send a princess to become the K'un-mo's consort.' (70) The Wu-sun country was divided, for the King was old and, considering China very distant and being unaware of its greatness, had heretofore submitted to the Hiung-nu, and this for a long time indeed. Moreover, his own country was also nearer them, so that his ministers, who were afraid of the Tartars, did not wish to move away, and, since the king was not free to arrive at a decision of his own choice, Chang K'ién was unsuccessful in inducing him to adopt his suggestion.

(71) The K'un-mo had more than ten sons, the second of whom, called Ta-lu, was an energetic leader of the masses. In this capacity he set himself up in a separate part of the country with more than ten thousand horsemen. Ta-lu's elder brother, the crownprince, had a son called the *Ts'ön-ts'ü* [according to *Ts'ién-han-shu*, chap. 96 B, p. 3, a title]. When the crownprince met with an early death, his last words to his father, the K'un-mo, were: 'Let the *Ts'ön-ts'ü* become crownprince, and do not allow any other man to take his place.' The K'un-mo, in his grief, consented; and so on the death of his father the *Ts'ön-ts'ü* became crownprince. Ta-lu was angry at being prevented from acting as crownprince and, having imprisoned his brothers, rose with his people in rebellion against the *Ts'ön-ts'ü* and the K'un-mo. The latter, being old, was in constant fear that Ta-lu might kill the *Ts'ön-ts'ü*; he therefore gave the latter more than ten thousand horsemen to settle elsewhere, while retaining the same number of horsemen for his own protection.

The population was thus divided into three parts; and, notwithstanding that the majority were under his authority, the K'un-mo did not dare to take it upon himself to conclude that treaty with Chang K'ién. (72) Chang K'ién, therefore, sent assistant ambassadors in several directions to the countries of Ta-yüan [Ferghana], K'ang-kü [Soghdiana], Ta-yüé-chi [Indo-scythians], Ta-hia [Bactria], An-si [Parthia], Shön-tu [India], Yü-tién [Khotan], Han-mi [?] and the adjacent territories. (73) Wu-sun furnished guides and interpreters to accompany Chang K'ién on his return, and the latter, traveling with several dozen natives and as many horses sent by the people of Wu-sun in acknowledgment [of the Emperor's gifts], thereby afforded them the opportunity to see China with their own eyes and thus to realize her extent and greatness. (74) On his return to China, Chang K'ién was appointed *Ta-hing* ['Great Traveler,' or head of the office of foreign affairs] with rank as one of the nine ministers of state. (75) More than a year after this he died.

(76) The envoys of Wu-sun, having seen that China was a very populous and wealthy country, reported to this effect on their return home, and this increased the estimation in which she was held there. (77) More than a year later, some of the envoys whom Chang K'ién had sent to the Ta-hia countries

returned with natives of those countries, and after this the countries of the Northwest began to have intercourse with China. Since Chang K'ién had been the pioneer in such intercourse, envoys proceeding to the West after him always referred to the Marquis of Po-wang as an introduction in foreign countries, the mention of his name being regarded as a guaranty of good faith. (78) After the death of K'ién, the Hiung-nu heard of China's relations with Wu-sun, at which they became angry and wished to make war on it. When China sent missions to Wu-sun, her ambassadors continually passed through the south of that country to Ta-yüan [Ferghana] and Ta-yüé-chi [Indoscythians], and since the people of Wu-sun were afraid, they sent ambassadors and tribute horses, expressing their wish to bring about family relations by marriage with a Chinese imperial princess. The Son of Heaven consulted his ministers, who all said: 'Let them first offer marriage gifts and we shall then send the maiden.' (79) At first the Son of Heaven consulted an oracle in the 'Book of Changes,' which said that 'the divine horse will come from the northwest.' The horses received from Wu-sun were termed 'heavenly horses,' but when the 'blood-sweating [*han-hüé*] horses' obtained from Ta-yüan [Ferghana] were found much stronger, the name 'Wu-sun horses' was changed to '[horses of the] extreme west,' and the Ta-yüan horses were called 'heavenly horses.'

At this time China began to build the great wall to the west of Ling-kü [near the present Liang-chóu-fu in Kan-su], and first established the district of Tsiu-ts'üan, through which one could reach the countries of the Northwest. Thus more embassies were despatched to An-si [Parthia], An-ts'ai [the Aorsi, or Alans], Li-kan [Syria under the Seleucids], T'iau-chi [Chaldea], and Shön-tu [India], and as the Son of Heaven had such a fancy for the horses of Ta-yüan, ambassadors [sent to procure these horses] followed upon one another's heels all along the route. Such missions would be attended by several hundred men, or by a hundred men, according to their importance. The gifts carried by them emulated in the main those sent in the time of the Marquis of Po-wang; but later on, when they had ceased to be a novelty, they were made on a smaller scale. As a rule, rather more than ten such missions went forward in the course of a year, and at the least five or six.

Those sent to distant countries would return home after eight or nine years, those to nearer ones, within a few years.

(80) This was the time when China had extinguished Yüé,¹ in consequence of which the barbarians in the southwest of Shu (Ssī-ch'uan) became alarmed and asked that Chinese officers be appointed, and attended court. Thus were created the districts of I-cháu, Yüé-sui, Tsang-ko, Shön-li, and Wön-shan, [the government] being guided by the wish that these territories should form a link in the development of the route to Ta-hia [Bactria]. (81) And so the envoys Pai Shī-ch'ang and Lü Yüé-jön were sent out in more than ten parties in a single year from these newly founded districts for Ta-hia [Bactria], but again and again they were held up by the K'un-ming tribes, who killed them and robbed them of the presents they carried, so that they were never able to reach Ta-hia. (82) Thereupon China raised an army from the convicts of the metropolitan district (*san-fu*; cf. *Ts'ién-han-shu*, chap. 76, p. 18, and other quotations in *Piën-tzī-lei-piën*, chap. 91, p. 9 B) and sent the two generals Kuo Ch'ang and Wei Kuang in command of tens of thousands of soldiers of Pa and Shu [Ssī-ch'uan], to fight the K'un-mings who had intercepted the Chinese ambassadors,² when several tens of thousands of the tribesmen were beheaded or made prisoners by the Chinese army before it withdrew. (83) After this ambassadors sent to the K'un-ming were again robbed, and a passage through this country was still found to be impracticable. (84) On the other hand, missions to Ta-hia [Bactria] by the northern route, viâ Tsiu-ts'üan, had by their frequency caused the foreign countries to be less and less interested in the Chinese ambassadorial gifts, which they no longer appreciated. (85) Since the work of the Marquis of Po-wang in preparing the way for intercourse with foreign countries had earned for him rank and position, officials and attendants who had accompanied him vied with one another in presenting to the

¹ Clearly referring to Nan-yüé, South China, conquered by General Lu Po-tö in 112 B. C., Hirth, *Chines. Ansichten über Bronsetrommeln*, p. 30. Cf. Mayers, *Chinese Reader's Manual*, p. 138, and Giles, *Chinese Biog. Dict.*, p. 548, who both give the year as 120 B. C.

² A footnote by the scholiast Sü Kuang, who died 425 A. D., refers this expedition to the year 109 B. C.

throne memorials in which they discussed the wonders, advantages, and disadvantages of certain foreign countries; and when the memorialists asked to be nominated as envoys, the Son of Heaven, on account of the extreme distance of the countries to be visited and owing to the scarcity of men expressing a willingness to go, would comply with such requests and would even provide credentials to candidates for ambassadorial posts without asking any questions as to whence they had come. In order to encourage enterprise in this direction numbers of embassies were fitted out and sent forward, though among those who returned there were bound to be some who had either purloined the presents entrusted to them or failed to carry out the imperial instructions.

The Son of Heaven on account of the experience of these quasi-envoys, would merely investigate cases as being highly criminal and punishable in order to stir up a feeling of resentment. By causing them to atone for their guilt [by payments?] they were led to apply again for ambassadorial appointments. Chances for such appointments now becoming numerous, those concerned in them made light of infringements of the law, and the lower officials connected with them would also give exaggerated accounts of the conditions of the foreign countries in question. Those who reported on some great projects in connection with foreign countries would be given plenipotentiary posts, whereas reports on less important ones would be rewarded with mere assistantships, for which reason reckless and unprincipled men became eager to follow examples thus set. The ambassadors, being mostly sons of poor families, appropriated the gifts sent by the government, and would undersell them for their private benefit. Foreign countries, in their turn, got tired of the Chinese ambassadors, whose tales consisted of conflicting accounts.^{2a} They

^{2a} Mr. T. Y. Leo remarks in connection with the above sentence: 'This is the interpretation by Fu K'ien [2d century A. D.]. According to Ju Shun [as quoted in a scholium to our passage] the passage would read: "The foreign countries in their turn got tired of the Chinese ambassadors, for many men [of the foreign countries] had complained that each had been more or less cheated and insulted several times by the Chinese." Judging by what follows, I am inclined to think the latter interpretation is the more logical. Ju Shun was a scholar of the Wei Kingdom of the San-kuo period [3d century A. D.].'

imagined that a Chinese army would not be near enough to reach them, and that they were free to annoy the Chinese ambassadors by cutting off their food supplies. The ambassadors were thus reduced to a state of starvation, and their exasperation took the form of actual hostilities. Lóu-lan and Ku-shī, which, though merely small countries, were thoroughfares to the West, attacked and robbed the Chinese ambassadors [Wang K'ui and others] more than ever, and unexpected troops of the Hiung-nu would at all times intercept westbound envoys. Ambassadors would therefore strive to outvie one another in spreading reports of the calamities threatening China from those foreign countries, which had walled cities and towns, but whose armies were weak and could easily be vanquished.

(86) On this account the Son of Heaven sent the Tsung-piau marquis [*Chau*] Po-nu to lead some tens of thousands of cavalry of the feudal states and regular troops toward the Hiung-nu River, wishing to engage the Tartars, but the latter retreated without giving battle. (87) In the following year Po-nu attacked Ku-shī. He took the lead with more than seven hundred light cavalry, captured the king of Lóu-lan, and defeated Ku-shī. He then displayed the prestige of his army in order to 'corner' Wu-sun, Ta-yüan, and other countries. On his return, he was raised to the rank of a marquis of Tso-yé.³ (88) Wang K'ui, who had been repeatedly ill-treated as an ambassador by Lóu-lan, had reported this to the Son of Heaven, who raised an army and ordered him to assist Po-nu in bringing Lóu-lan to terms. For this, Wang K'ui was made Marquis of Hau.⁴ (89) A line of military stations was now established between Tsiu-ts'üan and the Yü-mön Gate. (90) Wu-sun now presented a marriage gift of a thousand horses, upon which China sent a relative of the emperor's, the Princess of Kiang-tu, as a consort for the king of the Wu-sun. The latter, the K'un-mo, appointed her his right [i. e. less-honored] consort. The Hiung-nu, on their part, also sent a daughter in marriage to the K'un-mo, who appointed her his left [i. e. most-honored] consort. The K'un-mo said 'I am old,' and he induced his grandson, the Ts'ön-ts'ü, to marry the [Chinese] princess.

³ A footnote says that this happened in the year 108 B. C.

⁴ According to a footnote, in 107 B. C.

(91) The Wu-sun had great store of horses; rich men had as many as four or five thousand each.

(92) Once, when a Chinese ambassador had come to An-si [Parthia], the king of that country caused twenty thousand horsemen to welcome him at the eastern frontier, which was several thousand *li* distant from the royal capital. When he reached the capital he found that he had passed some dozens of walled cities, densely populated. When the ambassador returned to China they, in their turn, sent envoys to accompany the mission back to China, in order that they might see China's greatness with their own eyes. They offered as tribute big birds' eggs [ostrich eggs] and jugglers from Li-kan [Syria, etc.]. And the small countries to the west of Yüan, namely Huan, Ts'ién, and Ta-i [?], and those to the east of Yüan, namely, Ku-shi, Han-mi, Su-hié, and others, followed the Chinese ambassadors with tribute and had audience with the Son of Heaven, who was thereby highly gratified. (93) Also, a Chinese ambassador traced the source of the Ho River, which had its rise in Yü-tién [Khotan]. The hills there yielded great quantities of jadestone, picked up and brought to China [by the ambassadors]. (94) The Son of Heaven, in accordance with old maps and books, gave the name of K'un-lun to the hill in which the Ho River had its source.

(95) At this time the Emperor often made tours of inspection to the seaside, when he was generally accompanied by numbers of foreign guests, upon whom he would bestow abundant provisions, in order to impress them with the wealth of China. On such occasions crowds of onlookers were attracted by the performances of wrestlers, mummers, and all such wonderful entertainments, and by lavish feasts of wine and meat, by which the foreign guests were made to realize China's astounding greatness. They were also made to inspect the several granaries, stores, and treasuries, with a view to showing them the greatness of China and to inspiring them with awe. Later on the skill of these jugglers, wrestlers, mummers, and similar performers was further developed, their efficiency was increased from year to year. (96) It was from this period that the coming and going of ambassadors of the foreign countries of the northwest became more and more frequent. (97) The countries west of Yüan [Ferghana], which, being of the opinion that they were too far away from

China, had as yet calmly stood upon their national pride, could not be won over by our polite civilization into a state of vassalage. (98) Westward from Wu-sun as far as An-si [Parthia], the Hiung-nu lived nearby, and since they had [once] been a source of trouble to the Yüé-chi [Indoscythians], it was still a fact that if an envoy of the Hiung-nu, armed with a letter of the Shan-yü, were sent abroad, all the countries *en route* would give him safe-conduct and provisions without daring to make trouble of any kind, whereas the ambassadors of China could not obtain provisions without a money payment, nor could they continue their journeys on horseback without buying the necessary beasts. The reason for this was that the people of these countries thought that, China being far off and wealthy, the Chinese must buy what they wished to get; indeed they were more afraid of the Hiung-nu than of the Chinese ambassadors. (99) In the neighborhood of Yüan [Ferghana] wine was made from grapes. Rich people stored ten thousand stones and more of it without its spoiling. (100) The people liked to drink wine, and their horses liked lucerne (*mu-su* = *medicago sativa*). The Chinese envoys imported their seeds into China. The Son of Heaven thereupon first planted lucerne and vines on rich tracts of ground, and by the time that he had large numbers of 'heavenly' horses, and when many ambassadors from foreign countries arrived, by the side of Imperial summer palaces and other retreats one might see wide tracts covered with vineyards and lucerne fields.

(101) The people occupying the tracts from Ta-yüan [Ferghana] westward as far as the country of An-si talked different dialects, but their manners and customs being in the main identical, they understood each other. (102) They had deep-set eyes, most of them wore beards, and as shrewd merchants they would haggle about the merest trifles. They placed high value on women, and husbands were guided in their decisions by the advice of their wives. (103) These countries produced no silk and varnish, and they did not know the casting of coins and utensils.⁵ When some deserters from the retinue of a Chinese embassy had settled there as subjects they taught them

⁵ According to Sū Kuang, A. D. 352-425, some texts have *t'ie*, 'iron,' for *ts'ien*, 'coins.'

how to cast weapons and utensils other than those that they already had. Having secured Chinese yellow and white metal [i. e. gold and silver],⁶ they used this for making utensils; they did not use it for money. (104) And since Chinese ambassadors became numerous, the young men who had been attached to those missions would generally approach the Son of Heaven with [what seemed] a well worked-out project. (105) Thus they reported: 'The superior horses found in Ta-yüan are concealed [kept out of sight] in the city of Īr-shī, which is unwilling to give them to the Chinese ambassadors.' (106) Now, since the Son of Heaven was fond of the horses of Ta-yüan, he was pleased with this report and sent certain strong men [sportsmen, turfmen?], Ch'ö Ling and others, with a thousand pieces of gold and a golden horse in order to ask the king of Ta-yüan for the superior horses in the city of Īr-shī. (107) The Yüan country being overstocked with Chinese produce, the people held counsel among themselves, saying: 'China is far away from us, and in the Salt Lake [region] numbers of travelers have met with destruction. To the north of it one falls into the hands of Hu [Tartar] robbers; in the south there is dearth of water and vegetation; moreover, they are everywhere cut off from cities without any chance of foraging in many cases. Chinese missions, consisting of merely a few hundred members, have quite commonly lost more than half their staff by starvation. If this be so, how much less could the Chinese send a big army? What harm can they do to us? The horses in Īr-shī are the most precious horses of Yüan.' (108) And they refused to deliver the horses to the Chinese ambassadors. The latter became very angry and with scathing words smashed the golden horse and returned. (109) The notables, in their turn, were incensed and said: 'The Chinese ambassadors have treated us with extreme contempt.' They ordered the envoys out of the country, and caused them to be intercepted at Yü-ch'öng on the eastern

⁶ Wu Jön-kié, of the 12th century A. D., in his critical work *Liang-han-k'an-wu-p'u-i*, chap. 8, p. 8 B, quotes K'ung Ying-ta, one of the authors of the *Sui-shu* and one of the best-known commentators of the classics, 574-648 A. D., as saying that to the ancients *huang-kin*, 'yellow metal,' and *huang-t'ie*, 'yellow iron,' were identical with the *t'ung*, 'copper,' of his time. He also thinks that *pai-kin* means both 'silver' and 'tin,' the latter yielding bronze in combination with copper.

frontier, where the ambassadors were killed and robbed of their belongings.

(110) Upon hearing this the Son of Heaven was very wroth. The ambassadors previously sent to Yüan, namely Yau Ting-han and others, reported: 'The army of Yüan is weak; if we attack it with no more than three thousand Chinese soldiers using crossbows, we shall be sure to vanquish it completely.' The Son of Heaven, having previously sent the Marquis of Tso-yé with seven hundred cavalry to attack Lóu-lan, with the result that the king of that country was captured, approved of the plan suggested by Yau Ting-han and others, and, wishing to bestow a marquisate on his favorite concubine, Madam Li, appointed Li Kuang-li leader of the campaign, with the title *ĭr-shĭ tsiang-kün* [i. e. General ĭr-shĭ] and ordered him to set out with six thousand cavalry of the feudal states and several hundred thousand men, being recruits selected from the riffraff of the provinces, and to march upon Yüan with the intent of advancing on the city of ĭr-shĭ and taking possession of its superior horses, for which reason he was styled 'General ĭr-shĭ.' Chau Shĭ-ch'öng was appointed *kün-chöng* [adjutant-general?], the late Marquis of Hau, Wang K'ui, was sent as a guide to the army, and Li Ch'ö was appointed a governor in charge of the army regulations. This happened in the year 104 B. C. (111) And great swarms of locusts arose to the east of the great wall and traveled west as far as Tun-huang. When the army of General ĭr-shĭ had crossed the Salt Lake [Lopnor], the small states on the road were alarmed; they strengthened their city defenses and refused the issue of provisions. Sieges were of no effect. If the cities surrendered, the army would secure provisions; if they did not, it would in the course of a few days retire. When it came to Yü-ch'öng, the Chinese army consisted of not more than a few thousand men, and these were exhausted from lack of food. At the siege of Yü-ch'öng the Chinese troops were utterly routed with great losses in killed and wounded. General ĭr-shĭ with Li Ch'ö, Chau Shĭ-ch'öng, and others reasoned thus: 'If our drive on Yü-ch'öng ended in failure to take the city, how much less can we advance on the king's capital?' Consequently, after a campaign of two years the army was led back. When it reached Tun-huang only one or two out of every ten soldiers were left. (112) The

general sent a message to the Emperor in which he said: 'Owing to the distance of the expedition we often were short of provisions and our soldiers were troubled not so much by battles as by starvation; their numbers were not sufficient to conquer Yüan.' He proposed for the time being to stop the war and to set out again when better prepared. (113) When the Son of Heaven heard this report he was much incensed and ordered the Yü-mön [Gate] to be closed, saying: 'If any members of the army dare to enter, they shall lose their heads.' Īr-shī was afraid and remained at Tun-huang. (114) That summer [103 B. C.] China had lost more than twenty thousand men of Tso-yé's army against the Hiung-nu. The dukes, ministers, and councils called upon to deliberate all wished to give up the expedition against the army of Yüan and to direct special efforts to attacking the Tartars. (115) The Son of Heaven [thought that] having sent a punitive expedition against Yüan, a small country, without bringing it to terms would cause Ta-hia [Bactria] and the like countries to feel contempt for China, and the superior horses of Yüan would never be forthcoming; also Wu-sun and Lun-t'ou would make light of harassing the Chinese ambassadors, [and China] would thus become the laughing-stock of foreign countries. (116) The Emperor therefore preferred an indictment against Tóng Kuang and others who had reported that making war on Yüan was particularly inopportune, [and an army consisting of] ticket-of-leave men and sharpshooters, to whom were added the young riffraff and roughriders of the boundary, was organized within rather more than a year. When it left Tun-huang this army consisted of sixty thousand men, not counting those who followed as carriers of secret supplies of extra provisions; a hundred thousand oxen; more than thirty thousand horses; donkeys, mules, and camels numbering myriads, and a commissariat well stocked with provisions, besides arms and crossbows. All parts of the Empire had to bestir themselves in contributing offerings. (117) In this campaign against Yüan no less than fifty military governors were appointed. In the city of the king of Yüan there were no wells, and the people had to obtain water from a river outside the city, whereupon experts in hydraulics were sent to divert the course of the river, thus depriving the city of water, besides effecting an opening through which the city might be laid open to access. (118) In order to pro-

teet Tsiu-ts'üan, an additional contingent of a hundred eighty thousand frontier troops was stationed in the newly established districts of Kū-yen and Hiu-chu in the north of Tsiu-ts'üan and Chang-yé. (119) There were further sent the offenders under the seven clauses of the law on minor offenses from the whole empire, as carriers of provisions for the Īr-shī expedition force; wagoners with their carts went in endless lines to Tun-huang; and in anticipation of the defeat of Yüan, two horse-breakers were appointed as equerries [with the rank of] military governors to handle the superior horses to be selected. (120) Thereupon [General] Īr-shī had to march out again, and since he had now more soldiers, the smaller countries he passed through did not fail to welcome him with provisions for his army. When he came to Lun-t'óu, however, that city would not submit, so, after a siege of a few days, it was laid in ruins. After this event the march to the west proceeded without impediment as far as the [outskirts of the] city of Yüan. (121) On its arrival there the Chinese army consisted of thirty thousand men. An army of Yüan gave battle, the victory being gained by the efficiency of the Chinese archery; and this caused the Yüan army to take refuge in their bulwarks and mount the city walls. (122) General Īr-shī wished to attack Yü-ch'öng, but was afraid his detention thereby would allow Yüan to resort to additional stratagems. He therefore went direct to Yüan, cut off the source of its water-supply by diverting the course of the river upon which it depended, and the city was in great straits. Yüan was invested by the Chinese for more than forty days. On battering the outer city wall they captured one of the notables of Yüan, a prominent leader named Tsién-mi.

The people of Yüan became panic-stricken and withdrew into the inner city, where their notables held counsel among themselves, saying: 'The reason why the Chinese make war on us is that our king, Mu-kua,⁷ held back the superior horses and killed the Chinese ambassadors. If we now kill our king, Mu-kua, and surrender the superior horses, the Chinese army will raise the siege; on the other hand, if they do not raise the siege

⁷ According to *Ts'ién-han-shu*, chap. 17, p. 14, Mu-ku, which, according to Yen Shī-ku, appears to be similar in sound to the original western name.

there will be war to the death. It is not yet too late.' The notables of Yüan were all of this opinion. They therefore assassinated their king, Mu-kua, and sent his head to General Īr-shī by their notables, saying: 'If the Chinese will cease making war on us, we will let you have all the superior horses you desire and will supply the Chinese army with provisions; but, if you do not accept our terms, we will kill all the superior horses, and help will soon come from K'ang-kü [Soghdiana]. In that case we should keep within the city, while K'ang-kü would keep outside, fighting against the Chinese army, which ought carefully to consider as to the course it will adopt.' In the meantime K'ang-kü kept watch on the Chinese army, and, this being still numerous, did not dare to attack. General Īr-shī consulted with Chau Shī-ch'öng and Li Ch'ö. It was reported that Yüan had recently secured the services of a Chinese [lit. 'a man of Ts'in'] who knew how to bore wells, and that the city was still well supplied with provisions; that the chief malefactor whom they had come to punish, was Mu-kua, whose head had already come to hand; and that, if under the circumstances they did not raise the siege, Ta-yüan would make strenuous efforts to defend the city, while K'ang-kü would lie in wait until the Chinese were worn out, and then come to the rescue of Yüan, which would mean certain defeat to the Chinese army. The officers of the army agreed with these views. (123) Yüan was allowed to make a treaty. They delivered up their superior horses and permitted the Chinese to make a selection from them, besides furnishing great quantities of provisions for the commissariat. The Chinese army took away several dozens [*shu-shü*, 'several times ten'] of superior horses, besides more than three thousand stallions and mares of inferior quality. (124) They also appointed a notable of Yüan, named Mei-ts'ai, who had formerly treated the Chinese ambassadors well, as king of Yüan, with whose swearing-in the campaign ended. After all, the Chinese were unable to enter the inner city, and, abandoning further action, the army was led back.

(125) When General Īr-shī first started to the west from Tun-huang, the countries *en route* were unable to furnish provisions, owing to the size of his army. He therefore divided it now into several sections, which took the southern and northern routes respectively. The military governor, Wang Shön-shöng,

and the former superintendent of the Colonial Office, Hu Ch'ung-kuo, with more than a thousand men, marched by another route to Yü-ch'öng, whose city head refused the issue of provisions to the army. Wang Shön-shöng, though he was two hundred *li* distant from the main body of the army, reconnoitered, but made light of the situation, while upbraiding the people of Yü-ch'öng. The latter persisted in refusing the issue of provisions and, having ascertained by spies that Wang Shön-shöng's army was becoming reduced in numbers day by day, they one morning attacked the latter with three thousand men, killed Wang Shön-shöng and the other leaders, and routed his army, of which only a few men escaped with their lives to rejoin General Īr-shī and the main army. (126) General Īr-shī now entrusted Special Commissioner of Government Grain Shang-kuan Kié with the investment of Yü-ch'öng, whose king fled to K'ang-kü, pursued thither by Shang-kuan Kié. K'ang-kü had received the news of China's victory over Ta-yüan and delivered the fugitive king to Shang-kuan Kié, who sent him well bound and guarded by four horsemen to the commander-in-chief. On their way these men said to one another: 'The king of Yü-ch'öng is China's bitterest enemy. If we now let him live, he will escape, and then we shall have failed in an important undertaking.' Although wishing to kill him, none of the four dared to strike the first blow, when a cavalry officer of Shang-kui, named Chau Ti, the youngest among them, drew his sword and cut off the king's head. He and Shang-kuan Kié with the king's head then rejoined the commander-in-chief.

(127) When General Īr-shī set out for the second time, the Son of Heaven had sent ambassadors to call upon Wu-sun to send big forces for a joint attack on Ta-yüan. Wu-sun sent only two thousand men, cavalry, wavering between two courses of action and being unwilling to proceed. (128) When the smaller countries through which General Īr-shī passed on his return march to the east heard of the defeat of Ta-yüan, they all sent sons and younger brothers [of their kings] to follow the Chinese army in order to be presented to the Son of Heaven and to be offered as hostages to China. (129) In the campaign under General Īr-shī against Ta-yüan the *Kün-chöng* [Adjutant General!] Chau Shī-ch'öng's chief merit had consisted in vigorous fight-

ing; Shang-kuan Kié had distinguished himself by daring to break into the enemy's lines; Li Ch'ö had acted as adviser in strategical schemes; and when the army passed the Yü-mön Gate there were left of it scarcely more than ten thousand men and a thousand horses. In the second campaign the army had not suffered so much from the scarcity of provisions, nor from losses in battle, as from graft practised by leaders and officers, many of whom filled their pockets without any regard for the welfare of the rank and file, numbers of whom had under these conditions lost their lives. (130) In consideration of the fact that the campaign had to be conducted at a distance of ten thousand *li* from home, the Son of Heaven overlooked these offenses and created Li Kuang-li Marquis of Hai-si; further, he gave the title of Marquis of Sin-ch'ï to Chau Ti, the horseman who had beheaded the king of Yü-ch'öng; the *Kün-chöng* [Adjutant General?] Chau Shï-ch'öng was honored by being created a *kuang-lu-ta-fu* [noble of the first grade]; Shang-kuan Kié was made a *shau-fu* [director in the Imperial Household]; Li Ch'ö was appointed prefect of Shang-tang; three of the officers of the army received ministerial posts; and more than a hundred men received appointments as ministers to the feudal states, or as prefects, or [positions with salaries corresponding to] two thousand stones [of rice]. [Positions yielding incomes corresponding to] one thousand stones, or less, were given to a thousand men each; and all acts of bravery were rewarded by official positions exceeding the expectations of the recipients. Former convicts who had gone with the army received no rewards. Soldiers of the rank and file were presented with gifts of the value of forty thousand *kin* [pieces of gold]. (131) Four years were required to finish the entire campaign against Yüan, from its beginning to the second return of the armies.

(132) Rather more than a year after the conquest of Ta-yüan by China, when Meï-ts'ai was invested as king of Ta-yüan, the notables of that country, attributing the reverses of their country to his method of flattering the ambassadors, conspired against Meï-ts'ai, assassinated him, and installed Ch'an-föng, a younger brother of Mu-kua, as king of Yüan. (133) They sent his son as a hostage to China, and China returned a conciliatory mission with presents. (134) China subsequently sent more than ten embassies to the foreign countries west of Ta-yüan,

to collect curiosities and at the same time to impress upon such countries the importance of the victory over Ta-yüan and the establishment of a *tu-yü* [military governor!] at Tsiu-ts'üan in the Tun-huang region.^a (135) Westward from here to the Salt Lake [Lopnor] the road at many points was protected by military stations, and in Lun-t'ou there were several hundred soldiers stationed as farmers, the special commissioners in charge of the farms being required to guard the cultivated land and to store the crops of grain for the use of embassies sent abroad.

(136) Concluding remarks of the historian.—It is said in the *Yü-pōn-ki*: 'The Ho [i. e. the Yellow River] rises in the K'un-lun, the ascent of which occupies more than two thousand five hundred *li*. [This hill is so high that] the light of sun and moon may be obscured by its shadow. Its summit contains the spring of sweet wine and the pool of jade.' Now, since by the expedition of Chang K'ien to Ta-hia [Bactria] the source of the Yellow River has been traced, we ask, Where do we see the K'un-lun mentioned in the 'Life of Yü'? Indeed, the account of the nine Provinces of the Emperor Yü, with their hills and water-courses, as described in the *Shu-king*, is much nearer the truth. As regards the wonderful tales contained in the 'Life of Yü' and the *Shan-hai-king*, I do not dare to say anything about them.

TEXT

The Chinese text reproduced on the following pages is that of the K'ien-lung edition of 1739 (see page 93).

^a The scholiast Sū Kuang here assumes another name (Yüan-ts'üan) to be the correct reading for Tsiu-ts'üan. Yüan-ts'üan, Mr. Leo points out, belonged to the jurisdiction of Tun-huang.

^b 'Life of the Emperor Yü,' a work not now otherwise known in Chinese literature, and not mentioned in the Catalogue of the Imperial Library of the Han Dynasty.

史記第一百二十三卷大宛列傳第六十三

大宛之跡見自張騫²張騫漢中人建元中為郎³是時天子問匈奴降者皆言匈奴破月氏
 王以其頭為飲器月氏遁逃而常怨仇匈奴無與共擊之漢方欲事滅胡聞此言因欲通⁴
 使道必更匈奴中乃募能使者騫以郎應募使月氏與堂邑氏故胡奴甘父俱出隴西經⁵
 匈奴⁵匈奴得之傳詣單于單于留之曰月氏在吾北漢何以得往使吾欲使越漢肯聽我⁶
 乎留騫十餘歲與妻有子然騫持漢節不失居匈奴中益寬騫因與其屬亡鄉月氏西走⁷
 數日至大宛大宛聞漢之饒財欲通不得見騫喜問曰若欲何之騫曰為漢使月氏而⁸
 為匈奴所閉道今亡唯王使人導送我誠得至反漢漢之賂遺王財物不可勝言大宛以⁹
 為然遣騫為發導驛抵康居康居傳致大月氏¹⁰大月氏王已為胡所設立其太子為王既¹¹
 臣大夏而居地肥饒少寇志安樂又自以遠漢殊無報胡之心騫從月氏至大夏竟不能¹²
 得月氏要領留歲餘還並南山欲從羌中歸復為匈奴所得留歲餘單于死左谷蠡王攻

其太子自立國內亂¹⁴騫與胡妻及堂邑父俱亡歸漢漢拜騫為太中大夫堂邑父為奉使
 君騫為人彊力寬大信人蠻夷愛之堂邑父故胡人善射窮急射禽獸給食¹⁵初騫行時百
 餘人去十三歲唯二人得還騫身所至者大宛大月氏大夏康居而傳聞其旁大國五六
 具為天子言之曰大宛在匈奴西南在漢正西去漢可萬里其俗土著耕田田稻麥有蒲
 陶酒多善馬馬汗血其先天馬子也有城郭屋室其屬邑大小七十餘城衆可數十萬其¹⁶
 兵弓矛騎射其北則康居西則大月氏西南則大夏東北則烏孫東則扞罽于窰¹⁷于窰之
 西則水皆西流注西海其東水東流注鹽澤鹽澤潛行地下其南則河源出焉多玉石河
 注中國而樓蘭姑師邑有城郭臨鹽澤鹽澤去長安可五千里匈奴¹⁸右方居鹽澤以東至
 隴西長城南接羌南漢道焉¹⁹
 烏孫在大宛東北可二千里行國隨畜與匈奴同俗控弦者數萬敢戰故服匈奴及盛取²⁰
 其羈屬不肯往朝會焉²¹

康居在大宛西北可二千里行國與月氏大同俗控弦者八九萬人與大宛鄰國國小南

羈事月氏東羈事匈奴

奄蔡在康居西北可二千里行國與康居大同俗控弦者十餘萬臨大澤無崖蓋乃北海

云

大月氏在大宛西可二千里居媯水北其南則大夏西則安息北則康居行國也隨畜

移徙與匈奴同俗控弦者可一二十萬故時彊輕匈奴及冒頓立攻破月氏至匈奴老上

單于殺月氏王以其頭為飲器始月氏居敦煌祁連間及為匈奴所敗乃遠去過宛西擊

大夏而臣之遂都媯水北為王度其餘小衆不能去者保南山羌號小月氏

安息在大月氏西可數千里其俗土著耕田田稻麥蒲陶酒城邑如大宛其屬小大數百

城地方數千里最為大國臨媯水有市民商賈用車及船行旁國或數千里以銀為錢錢

如其王面王死輒更錢效王面焉畫革旁行以為書記其西則條枝北有奄蔡黎軒

條枝在安息西數千里臨西海暑濕耕田田稻有大鳥卵如甕人衆甚多往往有小君長
 而安息役屬之以為外國國善眩安息長老傳聞條枝有弱水西王母而未嘗見大夏在
 大宛西南二千餘里媯水南其俗土著有城屋與大宛同俗無大王長往往城邑置小長
 其兵弱畏戰善賈市及大月氏西徙攻敗之皆臣畜大夏大夏民多可百餘萬其都曰藍
 市城有市販賈諸物其東南有身毒國騫曰臣在大夏時見印竹杖蜀布問曰安得此大
 夏國人曰吾國人往市之身毒身毒在大夏東南可數千里其俗土著大與大夏同而卑
 濕暑熱云其人民乘象以戰其國臨大水馬以騫度之大夏去漢萬二千里居漢西南今
 身毒國又居大夏東南數千里有蜀物此其去蜀不遠矣今使大夏從羌中險羌人惡之
 少北則為匈奴所得從蜀宜徑又無寇天子既聞大宛及大夏安息之屬皆大國多奇物
 土著頗與中國同業而兵弱貴漢財物其北有大月氏康居之屬兵彊可以賂遺設利朝
 也且誠得而以義屬之則廣地萬里重九譯致殊俗威德徧於四海天子欣然以騫言為

然乃令騫因蜀犍為發間使四道並出出駝出冉出徙出却樊皆各行一二千里其北方⁵⁵
 閉氏徠南方閉雋昆明昆明之屬無君長善寇盜輒殺畧漢使終莫得通然聞其西可千
 餘里有乘象國名曰滇越而蜀賈姦出物者或至焉於是漢以求大夏道始通滇國初漢⁵⁸
 欲通西南夷費多道不通罷之及張騫言可以通大夏乃復事西南夷騫以校尉從大將⁵⁹
 軍擊匈奴知水草處軍得以不乏乃封騫為博望侯是歲元朔六年也其明年騫為衛尉⁶⁰
 與李將軍俱出右北平擊匈奴匈奴圍李將軍軍軍失亡多而騫後期當斬贖為庶人是歲⁶¹
 漢遣驃騎破匈奴西城數萬人至祁連山其明年渾邪王率其民降漢而金城河西西並⁶²
 南山至鹽澤空無匈奴匈奴時有侯者到而希矣其後二年漢擊走單于於幕北是後天⁶³
 子數問騫大夏之屬騫既失侯因言曰臣居匈奴中聞烏孫王好昆莫昆莫之父匈奴西⁶⁴
 邊小國也匈奴攻殺其父而昆莫生棄於野烏噉肉蜚其上狼往乳之單于怪以為神而⁶⁵
 收長之及壯使將兵數有功單于復以其父之民予昆莫令長守於西城昆莫收養其民⁶⁶

攻旁小邑控弦數萬習攻戰單于死昆莫乃率其衆遠徙中立不肯朝會匈奴⁶⁵遣奇
 兵擊不勝以為神而遠之因羈屬之不大攻⁶⁶今單于新困於漢而故渾邪地空無人蠻夷
 俗貪漢財物今誠以此時而厚幣賂烏孫招以益東居故渾邪之地與漢結昆弟其勢宜
 聽聽則是斷匈奴右臂也既連烏孫自其西大夏之屬皆可招來而為外臣⁶⁷天子以為然
 拜騫為中郎將將三百人馬各二匹牛羊以萬數齎金幣帛直數千巨萬多持節副使道
 可使使遺之他旁國騫既至烏孫烏孫王昆莫見漢使如單于禮騫大慙知蠻夷貪乃曰
 天子致賜王不拜則還賜昆莫起拜賜其他如故⁶⁹騫諭使指曰烏孫能東居渾邪地則漢
 遣翁主為昆莫夫人烏孫國分王老而遠漢未知其太素服屬匈奴日久矣且又近之
 其大臣皆畏胡不欲移徙王不能專制騫不得其要領昆莫有十餘子其中子曰大祿彊
 善將衆將衆別居萬餘騎大祿兄為太子太子有子曰岑娶而太子蚤死臨死謂其父昆
 莫曰必以岑娶為太子無令他人代之昆莫哀而許之卒以岑娶為太子大祿怒其不得

代太子也乃收其諸昆弟將其衆畔謀攻岑娶及昆莫昆莫老常恐大祿殺岑娶予岑娶
 萬餘騎別居而昆莫有萬餘騎自備國衆分為三而其大總取羈屬昆莫昆莫亦以此不
 敢專約於騫騫⁷²因分遣副使使大宛康居大月氏大夏安息身毒于寘扞罽及諸旁國烏
 孫發導譯送騫還騫與烏孫遣使數十人馬數十匹報謝因令窺漢知其廣大騫⁷⁴還到拜
 為大行列於九卿歲餘卒烏孫使既見漢人衆富厚歸報其國其國乃益重漢其後歲餘⁷⁷
 騫所遣使通大夏之屬者皆頗與其人俱來於是西北國始通於漢矣然張騫鑿空其後
 使往者皆稱博望侯以為質於外國外國由此信之自博望侯騫死後匈奴聞漢通烏孫⁷⁸
 怒欲擊之及漢使烏孫若出其南抵大宛大月氏相屬烏孫乃恐使使獻馬願得尚漢女⁷⁹
 翁主為昆弟天子問羣臣議計皆曰必先納聘然後乃遣女初天子發書易云神馬當從
 西北來得烏孫馬好名曰天馬及得大宛汗血馬益壯更名烏孫馬曰西極名大宛馬曰
 天馬云而漢始築令居以西初置酒泉郡以通西北國因益發使抵安息奄蔡黎軒條枝

身毒國而天子好宛馬使者相望於道諸使外國一輩大者數百少者百餘人人所齎持大放博望侯時其後益習而衰少焉漢率一歲中使多者十餘少者五六輩遠者八九歲近者數歲而反是時漢既滅越而蜀西南夷皆震請吏入朝於是置益州越雋牂牁牂牁汶山郡欲地接以前通大夏乃遣使柏始昌呂越人等歲十餘輩出此初郡抵大夏皆復閉昆明為所殺奪幣財終莫能通至大夏焉於是漢發三輔罪人因巴蜀士數萬人遣兩將軍郭昌衛廣等往擊昆明之遮漢使者斬首虜數萬人而去其後遣使昆明復為寇竟莫能得通而北道酒泉抵大夏使者既多而外國益厭漢幣不貴其物自博望侯開外國道以尊貴其後從吏卒皆爭上書言外國奇怪利害求使天子為其絕遠非人所樂往聽其言予節募吏民毋問所從來為具備人衆遣之以廣其道來還不能毋侵盜幣物及使失指天子為其習之輒覆案致重罪以激怒令贖復求使使端無窮而輕犯法其吏卒亦輒復盛推外國所有言大者予節言小者為副故妄言無行之徒皆爭效之其使皆貧人

子私縣官贖物欲賤市以私其利。外國外國亦厭漢使人。人有言輕重。度漢兵遠不能至。而禁其食物以苦漢使。漢使乏絕。積怨至相攻擊。而樓蘭姑師小國耳。當空道。攻殺漢使。王恢等尤甚。而匈奴奇兵時時遮擊使。西國者使者爭徧言外國災害。皆有城邑兵弱易擊。於是天子以故遣從驃侯破奴將屬國騎及郡兵數萬至匈奴水。欲以擊胡。胡皆去其⁸⁶明年擊姑師。破奴與輕騎七百餘先至虜樓蘭。王遂破姑師。因舉兵威以困烏孫。大宛之屬還封破奴為浞野侯。王恢數使為樓蘭所苦。言天子天子發兵令恢佐破奴擊破之。封恢為浩侯。於是酒泉列亭鄣至玉門矣。烏孫以千匹馬聘漢女。漢遣宗室女江都翁主往。妻烏孫烏孫王昆莫以為右夫人。匈奴亦遣女妻昆莫。昆莫以為左夫人。昆莫曰我老乃令其孫岑娶妻翁主。烏孫多馬。其富人至有四五千匹馬。初漢使至。安息安息王令將二萬騎迎於東界。東界去王都數千里。行比至。過數十城。人民相屬甚多。漢使還而後發使隨漢使來觀。漢廣人以大鳥卵及黎軒善眩人獻於漢。及宛西小國驩潛大益宛東姑師

杆罽蘇菹之屬皆隨漢使獻見天子天子大悅而漢使窮河源河源出于冥其山多玉石
 采來天子案古圖書名河所出山曰崑崙云是時上方數巡狩海上乃悉從外國客大都
 多人則過之散財帛以賞賜厚具以饒給之以覽示漢富厚焉於是大穀抵出奇戲諸怪
 物多聚觀者行賞賜酒池肉林令外國客徧觀各倉庫府藏之積見漢之廣大傾駭之及
 加其眩者之工而穀抵奇戲歲增變甚盛益興自此始西北外國使更來更去宛以西皆
 自以遠尚驕恣晏然未可詘以禮羈縻而使也自烏孫以西至安息以近匈奴匈奴困月
 氏也匈奴使持單于一信則國國傳送食不敢留苦及至漢使非出幣帛不得食不市畜
 不得騎用所以然者遠漢而漢多財物故必市乃得所欲然以畏匈奴於漢使焉宛左右
 以蒲陶為酒富人藏酒至萬餘石久者數十歲不敗俗嗜酒馬嗜苜蓿漢使取其實來於
 是天子始種苜蓿蒲陶肥饒地及天馬多外國使來衆則離宮別觀旁盡種蒲陶苜蓿極
 望自大宛以西至安息國雖頗異言然大同俗相知言其人皆深眼多鬚頗善市賣爭分

銖俗貴女子女子所言而丈夫乃決正其地¹⁰³皆無絲漆不知鑄錢器及漢使亡卒降教鑄
 作他兵器得漢黃白金輒以為器不用為幣¹⁰⁴而漢使者往既多其少從率多進熟於天子
 言曰宛有善馬在貳師城¹⁰⁵不肯與漢使¹⁰⁶天子既好宛馬聞之甘心使壯士車令等持千
 金及金馬以請宛王貳師城善馬宛國饒漢物相與謀曰漢去我遠而鹽水中數敗出其
 北有胡寇出其南乏水草又且往往而絕邑乏食者多漢使數百人為輩來而常乏食死
 者過半是安能致大軍乎無奈我何且貳師馬宛寶馬也¹⁰⁷遂不肯與漢使漢使怒妄言椎
 金馬而去宛¹⁰⁹貴人怒曰漢使至輕我遣漢使去令其東邊郁成遮攻殺漢使取其財物¹¹⁰於
 是天子大怒諸當使宛姚定漢等言宛兵弱誠以漢兵不過三千人彊弩射之即盡虜破
 宛矣天子已當使浞野侯攻樓蘭以七百騎先至虜其王以定漢等言為然而欲侯寵姬
 李氏拜李廣利為貳師將軍發屬國六千騎及郡國惡少年數萬人以往伐宛期至貳師
 城取善馬故號貳師將軍趙始成為軍正故浩侯王恢使導軍而李哆為校尉制軍事是

歲太初元年也而關東蝗大起蜚西至敦煌貳師將軍軍既西過鹽水當道小國恐各堅¹¹¹
 城守不肯給食攻之不能下者得食不下者數日則去比至郁成士至者不過數千皆
 饑罷攻郁成大破之所殺傷甚衆貳師將軍與哆始成等計至郁成尚不能舉況至
 其王都乎引兵而還往來二歲還至敦煌士不過什一二使使上書言道遠多乏食且士
 卒不患戰患饑人少不足以拔宛願且罷兵益發而復往天子聞之大怒而使使遮玉門¹¹³
 曰軍有敢入者輒斬之貳師恐因留敦煌其夏漢亡浞野之兵二萬餘於匈奴公卿及議¹¹⁴
 者皆願罷擊宛軍專力攻胡天子已業誅宛宛小國而不能下則大夏之屬輕漢而宛善¹¹⁵
 馬絕不來烏孫命頭易苦漢使矣為外國笑乃策言伐宛尤不便者鄧光等赦囚徒材官¹¹⁶
 益發惡少年及邊騎歲餘而出燉煌者六萬人負私從者不與牛十萬馬三萬餘匹驢騾¹¹⁷
 橐駝以萬數多齎糧兵弩甚設天下騷動傳相奉伐宛凡五十餘校尉宛王城中無井皆
 汲城外流水於是乃遣水工徙其城下水空以空其城益發戍甲卒十八萬酒泉張掖北¹¹⁸

置居延休屠以衛酒泉而發天下七科適及載糒給貳師轉車人徒相連屬至燉煌而拜¹¹⁹
習馬者二人為執驅校尉備破宛擇取其善馬云於是貳師後復行兵多而所至小國莫¹²⁰
不迎出食給軍至命頭命頭不下攻數日屠之自此而西平行至宛城漢兵到者三萬人¹²¹
宛兵迎擊漢兵漢兵射敗之宛走入葆乘其城貳師兵欲行攻郁成恐留行而令宛益生
詐乃先至宛決其水源移之則宛固已憂困圍其城攻之四十餘日其外城壞虜宛貴人
勇將煎靡宛大恐走入中城宛貴人相與謀曰漢所為攻宛以王母寡匿善馬而殺漢使
今殺王母寡而出善馬漢兵宜解即不解乃力戰而死未晚也宛貴人皆以為然共殺其
王母寡持其頭遣貴人使貳師約曰漢毋攻我我盡出善馬恣所取而給漢軍食即不聽
我盡殺善馬而康居之救且至至我居內康居居外與漢軍戰漢軍熟計之何從是時康
居候視漢兵漢兵尚盛不敢進貳師與趙始成李哆等計聞宛城中新得秦人知穿井而
其內食尚多所為來誅首惡者母寡母寡頭已至如此而不許解兵則堅守而康居候漢

罷而來救宛破漢軍必矣軍吏皆以為然許宛之約宛乃出其善馬令漢自擇之而多出
 食食給漢軍漢軍取其善馬數十匹中馬以下牡牝三千餘匹而立宛貴人之故待遇漢
 使善者名昧蔡以為宛王與盟而罷兵終不得入中城乃罷而引歸初貳師起燉煌西以
 為人多道上國不能食乃分為數軍從南北道校尉王申生故鴻臚壺充國等千餘人別
 到郁成郁成城守不肯給食其軍王申生去大軍二百里偵而輕之責郁成郁成食不肯
 出窺知申生軍日少晨用三千人攻戮殺申生等軍破數人脫亡走貳師貳師令搜粟都
 尉上官桀往攻破郁成郁成王亡走康居桀追至康居康居聞漢已破宛乃出郁成王予
 桀桀令四騎士縛守詣大將軍四人相謂曰郁成王漢國所毒今生將去卒失大事欲殺
 莫敢先擊上邽騎士趙弟最少拔劍擊之斬郁成王齋頭弟桀等遂及大將軍初貳師後
 行天子使使告烏孫大發兵并力擊宛烏孫發二千騎往持兩端不肯前貳師將軍之東
 諸所過小國聞宛破皆使其子弟從軍入獻見天子因為質焉貳師之伐宛也而軍正

¹²³¹²⁴¹²⁵¹²⁶¹²⁷¹²⁸¹²⁹

趙始成力戰功最多及上官桀敢深入李哆為謀計軍入玉門者萬餘人軍馬千餘匹貳
 師後行軍非乏食戰死不能多而將吏貪多不愛士卒侵奪之以此物故衆天子為萬里¹³⁰
 而伐宛不錄過封廣利為海西侯又封身斬郅成王者騎士趙弟為新時侯軍正趙始成
 為光祿大夫上官桀為少府李哆為上黨太守軍官吏為九卿者三人諸侯相郡守二千
 石者百餘人千石以下千餘人奮行者官過其望以適過行者皆絀其勞士卒賜直四萬¹³¹
 金伐宛再反凡四歲而得罷焉漢已伐宛立昧蔡為宛王而去歲餘宛貴人以為昧蔡善¹³²
 諛使我國遇屠乃相與殺昧蔡立毋寡昆弟曰蟬封為宛王而遣其子入質於漢漢因使¹³³
 使賂賜以鎮撫之而漢發使十餘輩至宛西諸外國求奇物因風覽以伐宛之威德而燉
 煌置酒泉都尉西至鹽水往往有亭而命頭有田卒數百人因置使者護田積粟以給使¹³⁵
 外國者

¹³⁶太史公曰焉本紀言河出崑崙崑崙其高二千五百餘里日月所相避隱為光明也其上

有醴泉瑤池今自張騫使大夏之後也窮河源惡睹本紀所謂崑崙者乎故言九州山川
尚書近之矣至禹本紀山海經所有怪物余不敢言之也

CHRONOLOGICAL SYNOPSIS

B. C.

- 176 Mau-tun, Great Khan (Shan-yü) of the Hiung-nu, defeats the Yüé-chi for the second time (*Shi-ki*, chap. 110, p. 13; cf. Shiratori, p. 115, and Franke, p. 13).
- 165 (according to Klaproth; but doubtful, according to Shiratori, p. 115). Lau-shang, Mau-tun's successor, annihilates the Yüé-chi, kills their king, and makes a drinking-cup out of his skull. The Yüé-chi flee to the west, and first
- 164 (?) settle down near Lake Issyk-kul, driving out the Sak-wang (Saka princes?), called also Sak-chung (Saka tribes? the character for *Sak* being modern *Sai*; see Giles, no. 9541¹⁰). The Sak-wang, according to *Ts'ién-han-shu* (chap. 96 A, p. 10 B), migrated south and became rulers in Ki-pin (Kashmir), and the Sak-chung were scattered about and settled in several other states. The scholiast Yen Shi-ku (7th cent. A. D.) identified these Sak-chung with the Shak-chung (*Shak* = modern *shü*, the character used in the transcription for *Sakya-muni Buddha*, Giles, no. 9983) of the Buddhists. My present personal view, which however may ultimately prove quite untenable, is that the Sak princes and the Sak tribes driven away by the Yüé-chi near Lake Issyk-kul may have been an eastern branch of that great Saka family of whom Herodotus (7. 64) says: *οἱ γὰρ Πέρσαι πάντας τοὺς Σκύθας καλοῦσι Σάκας*; in other words, that they were eastern Scyths, the term 'Scyth' being explainable as having originated from an old plural *sak-ut*, 'the Sakas.' However, this may be all wrong. There was at least one Chinese scholar in the sixth century who held quite different views, though my Chinese friend, Mr. T. Y. Leo, does not regard him highly

¹⁰ The Cantonese and, therefore, probable ancient sound of this character is *sak*, and not *sök*, as Franke, p. 47, transcribes it, apparently on the strength of Parker's adoption, in Giles's Dictionary, of Wade's *é* (= *ö*) in lieu of *a*, in many of his renderings of Cantonese sounds. The character for our *sai* is correctly described as *sak* on p. 795 of Eitel-Genähr's *Dictionary of the Cantonese Dialect*, as well as in Williams's and all other Cantonese dictionaries.

as an authority; still his theory, of which I distinctly disclaim any indorsement, deserves to be mentioned. Sün Tsi, whose biography has been preserved in *Pei-shi* (chap. 83, p. 10), offended the religious feelings of Wu-ti of the Liang dynasty (502-549 A. D.) by his criticisms of the Emperor's lavish devotion to Buddhist ceremonial, and fled to the Wei dominions in order to save his head. In his 'Memorial on Buddhism' (*Lun-fo-kiau-piau*) he discusses the term 'Sak-chung' of the *Ts'ién-han-shu*. These Sak tribes, he says, were originally the barbarians of the Yün clan (Giles, no. 13,844), who at the time lived in Tun-huang, were driven out by the Yüé-chi, and on their flight came to the south of the Tsung-ling (see Sū Sung's commentary on the Saka passage in the *Ts'ién-han-shu*).

In tracing this Yün clan back to its origin, as represented in Chinese literature, we have to refer them to those non-Chinese races who, according to legendary tradition, once lived within the dominions of the model emperors Yau and Shun (about the 23d century B. C.) and were banished to the distant border as being unfit to live with the more civilized Chinese. According to the *Tso-chuan* (9th year of Duke Ch'au = 533 B. C.), the Yün clan is connected with T'au-wu, one of the 'Four Wicked Ones' banished by Shun (cf. Hirth, *The Ancient History of China*, p. 85 f.). For 'the ancient kings located T'aou-wuh in (one of) the four distant regions to encounter the sprites and other evil things, and so it was that the villains of the surname Yun dwelt in Kwa-chow' (Legge, *The Ch'un Ts'ew, with the Tso-chuen*, p. 625; cf. also *T'ung-tién*, chap. 189, p. 3, and Sū Sung's *Si-yü-shui-tau-ki*, chap. 3, p. 8 B seq.). If this tradition were more than a mere prehistorical legend, we might be led to assume that Sū Sung's commentary considered the Sak tribes expelled by the Yüé-chi near Lake Issyk-kul as belonging to the stock of Tangut or Tibetan nations, rather than to the Scythians of Herodotus.

- 160 (approximately; see Shiratori, p. 117, and Franke, p. 15). The Wu-sun, formerly under Hiung-nu rule near Kua-chóu, move to the west, drive out the Yüé-chi, and occupy their territory near Lake Issyk-kul, shaking off allegiance to the Hiung-nu.

- 145 (?) Ssü-ma Ts'ién born (Chavannes, l. xxiv).
- 140 Wu-ti becomes Emperor of China.
- 138 Chang K'ien leaves China on a mission to the Yüé-chi and is made a prisoner by the Hiung-nu.
- 128 Chang K'ien escapes, reaches the court of the Yüé-chi via Ta-yüan and K'ang-kü, and spends a year in Ta-hia (Bactria).
- 127 Chang K'ien returns and, traveling along the northern slope of the Nan-shan, is again detained by the Hiung-nu near Lake Lopnor.
- 126 Chang K'ien again escapes and arrives in China with a report of his discoveries, acquainting the Chinese of the existence of powerful countries in western Asia, including India, and the alleged source of the Yellow River near Khotan.
- 123 Chang K'ien created Marquis of Po-wang.
- 122 Chang K'ien degraded.
- 121 The young general Ho K'ü-ping defeats the Hiung-nu (see Chavannes, l. lxvii).
- 115 Chang K'ien's mission to Wu-sun, whence he details sub-ambassadors to various countries including India (?). About a year after his return
- 114 Chang K'ien dies.
- 113 Chang K'ien's sub-ambassadors return to China with natives of Western Asia.
- 112 War against Yüé (South China). Attempts made to reach India by a direct route.
- 111-110 Ssü-ma Ts'ien's sojourn in the southwest, where he may have become familiar with the K'un-ming and other tribes.
- 110 Death of Ssü-ma T'an, Ssü-ma Ts'ien's father.
- 108 Chau Po-nu defeats the hitherto refractory kingdoms of Lóu-lan and Ku-shi.
- 106 A line of military stations established west of the Great Wall at Yü-mön. The road to Ta-yüan opened to traffic. ✓
The Son of Heaven seeks to procure from Ta-yüan the superior horses kept at the city of Īr-shi (Nish, Uratube). The sale of them is refused, and the Chinese ambassador is killed at Yü-ch'öng, east of Ta-yüan.

- 104 Li Kuang-li appointed leader of a campaign against Ta-yüan to enforce the sale of the Īr-shī horses.
- 103 Li Kuang-li, returning without having reached Ta-yüan, is forbidden to enter China and ordered to form a new army at the Great Wall.
- 102 Li Kuang-li's second campaign against Ta-yüan.
- 101 Ta-yüan, defeated, becomes a tributary state of China.
- 100 Mei-ts'ai superseded as king of Ta-yüan by Mu-kua's brother, Ch'an-fōng. Since *after* this time the *Shi-ki* speaks of 'more than ten embassies' having been sent to the west (§ 134), it seems as though a number of years at least elapsed before Ssi-ma Ts'ién ceased to work on it.
- 98 Ssi-ma Ts'ién disgraced (see Chavannes, l. xxxvi-xl).
- 87 Death of Wu-ti, whose posthumous title (Wu-ti) is not used by Ssi-ma Ts'ién. The latter must, therefore, have died (or abandoned work?) before that year (Chavannes, l. xlv).

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(It appears that about a hundred years ago a dilapidated monument existed among the hills on the south shore of Lake Issyk-kul. When Sung-yün (died in 1835, cf. Giles, *Biogr. Dict.* no. 1843), as Governor of Ili, heard of its existence, he ordered one of his military officers to have a rubbing made of the inscription on it. This shows a number of characters which, as they are taken out of their context and placed on record in Sū Sung's *Si-yü-shui-tau-ki*, chap. 5, p. 8 B, give no sense whatever. The natives were said to call the monument 'Chang K'ien's Tablet.' Sū Sung, in spite of repeated inquiries, did not find a trace of it.)

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HUN-SHÖ (thus transcribed on the strength of a *tsi-lan* scholium in *T'ung-kiên-kang-mu*, 4, p. 124; = Chavannes' *hoen-sié*), prince, chief of the western Hiung-nu, tenders his allegiance to China, 61; his territory deserted, 66, 69.

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IRON, none between Ta-yüan and An-si (†), 103.

IR-SHI. The old sound of these two syllables was most probably either

ish or *nish*. The modern sound of the character for the first syllable, now pronounced *ir*, is *ni* in five of its combinations with certain radicals according to Chalmers, *K'ang-hi*, p. 28 f., the best authority as regards the correct description of sounds by the Chinese method, and, since the omission of radicals in ancient texts is by no means unknown (see the examples, to which I may add others referred to by me in *JAOS* 30. 27), I do not hesitate to look upon *nish* as a possible equivalent in its ancient sound for modern *ir-shi*. I am, therefore, inclined to fall in with de Lacouperie's proposition (*Western Origin of the Early Chinese Civilization*, pp. 220 and 224; cf. also K. Shiratori, quoted in Dr. T. Fujita's paper 'The Castle Kwei-shan in Ta-yuan kuo and the Royal Court of Yüeh shih' in the *Journal of the Japanese Oriental Society*, 6. 194 f.) to connect this name *Nish* with the home of the celebrated Nisean horses of classical lore. Though located by Herodotus on 'a large plain in Medic territory,' later classical authors (see Heinrich Stein in a footnote to the Nisean horse passage in his edition of *Herodotus*, 7. 40) name different localities much farther east. Pliny (6. 113) speaks of 'regio Nisiaea Parthyenes,' and Stein continues in his footnote: 'Noch östlicher haftete der Name an den Hochthälern des Murghâb (Margos), dem in Vendid. 1. 26 erwähnten "Niçâya welches zwischen Môuru (Merv) und Bâksdî (Balkh) liegt"; während nach einer unsicheren Notiz bei Hesych. V. Νησαίαι ἵππους und Suid. ἵππος νησαῖος jene Pferde in der zwischen Sogdiana und Baktriana gelegenen Landschaft Καταστρυώνα (δὲ περ' Ἑλλάδι γλῶσση νῆσος) heimisch waren. Bitter, *Erdk.* 9. 364, findet sie in der turkomannischen Zucht der Atak, die noch heute durch ganz Persien wegen ihrer Grösse, Ausdauer und Schnelligkeit selbst vor der arabischen Race ausgezeichnet ist, und deren edle Zucht wohl zum Teil in einigen Stutereien der Perser-Monarchen in den medischen Hochebenen eingeführt werden konnte.' Could not this be the *Ir-shi* of the *Shi-ki*? It looks almost as if the multiplicity of regions which, like the cities claiming the privilege of being the birthplace of Homer, are named as producers of the best horses the world could boast of at the time, can be easily explained, if we allow some Persian, Parthian, or Soghdian proper name like *Nish*, Grecianized into *Νησαία*, etc., had in the course of centuries grown into a technical term, designating at different periods the chief claimant for horse breeding *par excellence*. Modern dictionaries furnish what may be almost looked upon as an analogy to this process in the term 'Tattersall's,' once the famous horse-market in London, which has since become a designation of large horse-markets in all countries. It seems that by following up Ritter's proposition we may be allowed to locate the "Tattersall's" of the *Shi-ki* pretty near the city of Ta-yüan, possibly on Ta-yüan territory itself. We may thus arrive at a compromise between de Lacouperie's view, rejected by Chavannes, and that of Chavannes, who refers us (p. xlv, note) to the Chinese identification, made in the 7th century A. D., when tradition may still have been alive, of the city of *Ir-shi* with the Osrushna of Buddhist travelers, i. e. the present city of Uratube, about a hundred miles east of Samarkand.

'**IR-SHI, GENERAL,**' title bestowed on Li Kuang-li, q. v.

JADESTONE found on hills near Khotan, 23, 93.

JAN, hill tribe, 55.

JO-SHUI (the 'weak water,' *ὕδωρ ἀσθενές*, a legendary river or lake, placed by the Chinese near the supposed western terminus of the world), 45.

JUGGLERS, in T'iau-chi, 44; of Li-kan brought as tribute by Parthians to China, 92; become popular in China, 95.

KAN FU, Chang K'ien's Tartar (Hiung-nu?) companion, 4; returned with Chang K'ien, 12; given a title, 13; his personality, 15; an excellent bowman, 15.

K'ANG-KÜ (Soghdiana), connected by postal roads with Ta-yüan (Fergana), conveys Chang K'ien to the Yüé-chi, 9; visited by Chang K'ien in person, 17; in the north of Ta-yüan, 22; northwest of, and continuous with, Ta-yüan, 27; nomads, under political influence of Yüé-chi and Hiung-nu, 27; in the north of Yüé-chi, 29; small, 27, but strong in military, 54; assistant envoy sent to, by Chang K'ien from Wu-sun, 72; an ally of Ta-yüan, 122; Chinese troops advance as far as, when the fugitive king of Yü-ch'öng is delivered to them, 126.

KHOTAN, see YÜ-TIEN.

K'ANG (Tangutans), 12; southern neighbors of western Hiung-nu; cut off road to China, 24; remnants of Yüé-chi take refuge with, 29; on way to India, 53.

KIANG-TU, Princess of, given in marriage to old king of Wu-sun, who marries her to his grandson, 90.

KIEN-WEI (= Sü-chou-fu), starting-point of exploring expedition to find India, 55.

K'U-LIEN-SHAN, hill near old seats of Yüé-chi, 29, 60. (The tomb, recently discovered, of the young general Ho K'ü-ping is supposed to resemble this hill in shape. See illustration in *Journal Asiatique*, 11. sér. 5. 472. Regarding the location of this hill see Shiratori, p. 103 f.)

KIN, lit. gold, money, 130.

KIN-CH'ÖNG (Lan-chou-fu), 61.

KIUNG, district in Ssi-ch'uan (= Kiung-chou), bamboo from, 53; a starting-point on the road to India, 55.

KUANG-LU-TA-FU, title of nobility, 130.

K'UI-SHUI = the Oxus, 29, 34, 46.

KÜN-CHÖNG = adjutant general (?), 110, 129, 130.

K'UN-LUN, name of a hill occurring in old books as that where the Ho, or Yellow River, rises, given to hills near Khotan by Chinese ambassadors, 93, 94, 136. (See Franke, p. 33 f.)

K'UN-MING TRIBES (in south-west of Sü-chou-fu), given to robbery, 56; prevent expedition to India, 56; to Bactria, 81-83.

K'UN-MO, title of the King of Wu-sun, 62; see also **WU-SUN**. (Regarding the many attempts at the etymology of the term, see Shiratori, p. 136.)

KUO CH'ANG, general sent against the K'un-ming tribes in 109 B. C., 82.

KU-SHI, a city on the banks of the Salt Lake, 23; as a thoroughfare to the West interferes with Chinese missions, 85; battle of, in 108 B. C. raises the prestige of the Chinese in Wu-sun and the farther West, 87; sends tribute to China, 92.

KÜ-YEN, district, 118.

LAN-CHÓU-FU = Kin-ch'öng, 61.

LANG, title of an officer in the imperial household, a yeoman (†), 2, 4. (See Chavannes, *Les Mémoires*, 2. 201, n. 1; it seems that the holder of this otherwise indefinable title was exempt from taxes, cf. Chavannes, 3. 552, n. 4; but cf. also an essay under *lang-kün* in *Liang-han-k'an-wu-p'u-i*, chap. 10, p. 12 f. Perhaps a term like the German *Junker* in *Kammerjunker*.)

LANGUAGES and dialects between Ta-yüan and An-si, 101.

LAN-SHI, capital of Ta-hia, 51.

LAU-SHANG, Great Khan of the Hiung-nu, 29.

LI, the Chinese mile (equivalent to about 3 stadia, but corresponding in Western Asia to the stadium of classical authors; see *China and the Roman Orient*, p. 222 ff.), 18, 23, 25, 27, 28, 29, 30, 39, 46, 53.

LIANG-CHÓU-FU, see LING-KÜ.

LI CH'Ö, general under Li Kuang-li in the campaign against Ta-yüan, 110, 111; consulted by Li Kuang-li at siege of city of Ta-yüan, 122; strategical adviser, 129; appointed prefect of Shang-tang, 130.

LI FU-JÖN, Madam Li, favorite concubine of the Emperor Wu-ti, sister of the general Li Kuang-li, 110.

LI-KAN (called Ta-ts'in in later records), 39; regular traffic with, 79, 92. (A designation of Syria under Antiochus VI, whose army had invaded Parthia with ill success in 129 B. C., not long before the arrival at the court of the Yüé-chi of Chang K'ien and who may have merely transmitted the information on countries not visited by him in person; I am in doubt as to the identity of the name and abandon the idea of Rekem, or Petra.)

LI KUANG (a general in many campaigns against the Hiung-nu), Chang K'ien's chief in 122 B. C., 59.

LI KUANG-LI, appointed generalissimo in the campaign against Ta-yüan, receives the title 'General Ir-shi,' in anticipation of his forcing the city of Ir-shi (Nish†) to deliver the celebrated horses named after it and said by Ta-yüan to be withheld there, 110; despite great hardships reaches eastern frontier of Ta-yüan and returns, having lost the greater part of his army, 111; reports his failure, 112; forbidden to return home, remains at Tun-huang, 113; his second campaign, 120-131; created Marquis of Hai-si, 130.

LING-KÜ (Liang-chóu-fu), great wall at, 79.

LOCUSTS devastate country when Chinese army starts against Ta-yüan, 111.

LOPNOR, see SALT LAKE.

LÓU-LAN, a city on the banks of the Salt Lake, 23; a thoroughfare to the West, interferes with Chinese missions, 85; king of, captured in 108 B. C., 87, 110.

LUCERNE, *see* MU-SU.

LUK-LI (= perhaps some derivative of Uigur. *uluk*, 'erhaben, gross,' Radloff, *Wb.* 1693f), title of a Hiung-nu prince, 12. The first character, usually standing for *ku*, 'valley,' is to be read *luk* ad hoc. Chalmers, *K'ang-hi*, p. 441 B; *K'ang-hi*, Rad. 150, 1.

LUNG-SI (= modern Kan-su), 4, 24.

LUN-T'ÖU, a city on the road to the West, able to harass Chinese expeditions, 115; laid in ruins for refusing provisions to Chinese army, 120; soldier farmers stationed at, to hoard up provisions for embassies, 135. (Cf. Éd. Biot. 'Mémoire sur les colonies militaires et agricoles des Chinois,' in *Journ. Asiatique*, 4. sér. 15. 341 f.)

LU-YÜE-JÖN, unsuccessful leader of caravans to Bactria, 81.

MAEOTIS, Palus, *see* AN-TS'AI.

MANG, hill tribe, 55.

MARKETS, in An-si, 35; in Ta-hia, 51.

MAU-TUN, Great Khan of the Hiung-nu, 29.

MEDICAGO SATIVA, *see* MU-SU.

MEI-TS'AI (possibly some such name as *Moas*, or *Mauas*, which appears on Saka coins in India, cf. A. Cunningham, 'Coins of the Sakas' in *Numismatic Chronicle*, vol. 10, 3d ser., p. 103 ff., of whom the man called Mei-ts'ai may be a namesake, though certainly not the identical king, whose coins were found chiefly in the neighborhood of Taxila), king of Ta-yüan, succeeding Mu-kua, 124; killed by his people for being too friendly to China, 132.

METALS, melting of, taught by Chinese deserters in countries between Ta-yüan and An-si, 103. (Cf. an essay on the technicalities of this passage in *Liang-han-k'an-wu-p'u-i*, chap. 8, pp. 8 and 9.)

MIGRATIONS of the Wu-sun from original seats among Hiung-nu east of Lopnor to distant west, 62-65; *see also* YÜE-CHI.

MILITARY GOVERNORS, special (*kiau-yü*), appointed for the army against Ta-yüan, 117; appointed as horse-breakers to conduct horses from Ta-yüan, 119; (*tu-yü*) appointed after the war to reside in Tsiu-ts'üan, 134.

MINISTERS, of State, high rank in civil service, 74; appointed for army service, 130.

MU-KUA (or Mu-ku), King of Ta-yüan, responsible for trouble with China, sacrificed by his people and succeeded by Mei-ts'ai, who was friendly to the Chinese, 122; his younger brother made king by his people, 132.

MUMMERS, 95.

MU-SU, the Emperor Wu-ti covers large tracts of land with *mu-su* as fodder for his horses, 100. (Canton dial. *muk-suk*, i. e. the lucerne, *medicago sativa*, probably the transcription of some foreign word, like Turkish *burchak*, if we allow for a change the word may have undergone from the original meaning within the last two thousand years. For *burchak*, of which the old Chinese sound *muk-suk* would be quite possible as a transcription, now denotes another seed plant used for fodder, the vetch, according to Radloff, *Wörterbuch der Türk-Dialecte*, 4, col. 1832: *Kara burchak*, 'die Wicke (vicia).')

NAN-SHAN, a range of hills separating Tibet from Eastern Turkestan, and its continuation towards the east, 12, 29, 61.

NISH, *see* IR-SHĪ.

NOMAD NATIONS: Wu-sun, 25; K'ang-kü, 27; An-ts'ai, 28; Yüé-chī, 29. Cf. CITY DWELLERS.

'NORTHERN SEA,' term applied to the Great Marsh (*Palus Maeotis*), 28.

NOTABLES (*Kui-jön*), the real power in Ta-yüan, 109 *et passim*.

ORACLE consulted, *see* 'BOOK OF CHANGES.'

ORDU, Western, of the Hiung-nu, the Wu-sun leader (K'un-mo) made governor of, 64; conquered by the Chinese, 60; *see also* Ho K'Ü-PING.

OSTRICH, the, in T'iau-chī, 42; eggs of the, brought to China by Parthians, 92.

OXUS RIVER, *see* K'UI-SHUI.

PA, part of modern Ssī-ch'uan, 82.

PAI SHI-CH'ANG, unsuccessful leader of caravans to Bactria, 81.

PARCHMENT, writing material in Parthia, 37.

PARTHIA, *see* AN-SI.

PIAU-KI, general, *see* Ho K'Ü-PING.

P'O (= Ya-chóu in Ssī-ch'uan), a starting point on the road to India, 55.

PO-NU, *see* CHAU PO-NU.

POPULAR CUSTOMS, between Ta-yüan and An-si, 101, 102; like those of the Hiung-nu, *see* WU-SUN; YÜÉ-CHĪ; like those of the Yüé-chī, *see* K'ANG-KÜ; AN-TS'AI; like those of Ta-hia, *see* SHÖN-TU.

POPULATION, in Ta-yüan, 20; in T'iau-chī, 43; in Ta-hia, 50.

POSTAL ROADS in Ta-yüan to K'ang-kü, 9.

PO-WANG, Marquis of, title bestowed on Chang K'ién in 123 B. C., 58; name commands respect in western countries, 77; trade conformed to precedent created by, 79; successors to, as ambassadors to the West men without distinction, 85.

PREFECTS, posts of, given as rewards to army officers, 130.

PROVISIONS given to Hiung-nu, but refused to Chinese envoys to the West, 98; difficulties in procuring, from cities *en route* by Chinese army, 111; drawn from all parts of the empire for second army against Ta-yüan, 116; carriers of, selected from offenders against the law, 119; readily granted *en route*, 120; Ta-yüan grants, to the Chinese army, 123; difficulty of procuring, causes Chinese army to proceed in sections by different routes, 125; city of Yü-ch'öng refuses issue of, 125; shortness of, due to graft, 129; station for the supply of, for embassies to the West established at Lun-t'ou, 135.

P'U-T'AU = *βότρυς*. *See* Kingsmill in *JRAS*, new ser. 14. 85 n. *See also* VINE and WINE. The Chinese term *p'u-t'au* for 'grape' occurs for the first time in Chinese literature in our text.

REWARDS to army officers, 130.

RICE, grown in Ta-yüan, 19; in An-si, 31; in T'iau-chī, 41; *see also* STONES OF RICE.

RIVERS flowing east and west in Central Asia, 23.

ROBBERS, few, in Ta-hia, 10; obstruct road in Salt Lake region, 107; *see also* K'UN-MING TRIBES.

SALT LAKE (Lopnor), believed to receive the headwaters of the Yellow River, which is said to flow underground to the south of it, 23; Western Hiung-nu east of, 24; country east of, became clear of Hiung-nu in 121 B. C., 61; proposal to invite Wu-sun to fill vacant territory, 66; Chinese victories near, 87; region near, dangerous to travelers, 107; Chinese army against Ta-yüan crosses, 111; road to the West as far as, lined with military stations, 135.

SAN-FU, the metropolitan district, 82.

SEA, WESTERN = Caspian or Aral, 23; = Persian Gulf, Red Sea, or Mediterranean, 39; NORTHERN, term applied to the *Palus Maeotis*, 28. (Regarding the terminology of such names as *si-hai* and *pei-hai*, cf. *Liang-han-k'an-wu-p'u-i*, chap. 8, p. 7.)

SHA-CHÖU, original home of Yüé-chi nation, 29.

SHANG-KUAN KIÉ invests city of Yü-ch'öng and captures its fugitive king in K'ang-kü, 126; as a leader distinguished by breaking into the enemy's lines, 129; receives a court title, 130.

SHANG-KUI, a prefectural city in the present Kan-su province, birthplace (or, garrison?) of Chau Ti, 126.

SHANG-TANG, a prefecture, 130.

SHAN-HAI-KING (the 'Hill and Sea Classic'), Ssi-ma Ts'ien refrains from saying anything about its (probably much too wonderful) tales, 136.

SHAN-YÜ (cf. the legend *Sanaob* on coins of Saka kings referred to the Chinese term by Cunningham in *Num. Chron.* 3d ser. 8 and 12; the term is explained as corresponding to Turkish *tängri kudu*, or the Chinese *t'ien-tsi*, i. e. 'Son of Heaven,' Schott in *Sb. der Ak. der Wiss.* Berlin, 1. Dec. 1887, p. 7 of reprint), title of the Great Khan, or King, of the Hiung-nu, 5, 29, 63, 64, 66 *et passim*; death of, 12; envoys armed with letters from, respected more than those from China in countries west of Wu-sun, 98.

SHAU-FU, a court title, 130.

SHÖN-LI, a district near modern Ya-chöu-fu in Ssi-ch'uan, 80.

SHÖN-TU (= Sindh, India) southeast of Ta-hia, 52; unrecorded early trade of, with Ssi-ch'uan, 53; popular customs of, like those of Ta-hia, 53; Chang K'ien's plan to discover, 53; fruitless attempts to open direct communication with, 55-58; assistant envoys sent to, by Chang K'ien from Wu-sun, 72; missions to (via Bactria?), 79.

SHU (Ssi-ch'uan), bamboo and cloth from, 53; easiest thoroughfare to India, 53, 55; traders of, surreptitiously export produce to Tién-yüé on the road to India, 57; territories in the southwest of, added to Chinese dominion, to serve as thoroughfares to Far West, 80, 82.

SHU-KING, legendary accounts regarding the source of the Yellow River referred to in, seem to be confirmed by Chang K'ien's discovery, 136.

SIAU-YÜÉ-CHI, 29.

SILK, sent to Wu-sun, 67; none in Ta-yüan and countries west of it, 103.

SILVER, *see* METALS.

SIN-CH'Ü, Marquis of, *see* CHAU TI.

SINDH = India, *see* SHÖN-TU.

- SI-WANG-MU (lit. 'Western King's Mother,' a legendary being in the extreme west), 45.
- SOGHDIANA, *see* K'ANG-KÜ.
- SOLDIERS, *see* ARMY.
- SON OF HEAVEN, *see* WU-TI.
- SSI, a station on the supposed road to India, 55.
- SSI-CH'UAN, *see* SHU.
- STONES OF RICE, an annual income in kind, as a reward to army officers, 130.
- SU-HIE, small country east of Ta-yüan, 92.
- SUI TRIBES, 56.
- SÜ KUANG, scholiast, 82 n.
- 'SWEATING BLOOD,' said of horses, *see* HAN-HÜE.
- SYRIA, *see* LI-KAN.
- TA-HIA (Bactria), occupied by the Yüé-chi (Indosecythians), 10, 11, 29; visited by Chang K'ien in person, 17; in the southwest of Ta-yüan, 22; south of Yüé-chi, 29; described, 46-53; people bad warriors, but good traders, 49; great, rich, and civilized like China, 54; Wu-ti consults Chang K'ien about, 61; assistant envoys sent to, by Chang K'ien from Wu-sun, 72; attempts to reach by the southern route (Yün-nan, Ssi-ch'uan, etc.) interfered with by K'un-ming tribes, 81; northern route via Tsiu-ts'üan, 84.
- TA-HING, 'Chief of Foreign Office,' title bestowed on Chang K'ien, 74.
- TA-I, small country in the west of Ta-yüan, 92.
- T'AI-CHUNG-TA-FU, title bestowed on Chang K'ien, 13.
- TA-LU, a son of the King of Wu-sun, 71.
- T'ANG-I, family owning a Tartar (Hiung-nu?) slave, 4.
- T'ANG-I FU, so called because he must be held to have been adopted by the T'ang-i family, *see* KAN FU.
- TANGUTANS, *see* K'ANG.
- TARTARS (*hu*), generally designating the Hiung-nu (Huns) with the several nomadic Turkish, Mongolic, and Tungusic tribes forming their empire, 4, 10, 86, 107.
- TA-TSÖ, 'the Great Marsh' = *Palus Maeotis*, or Sea of Azov, near the country of the Alans, *see* AN-TS'AI.
- TA-YÜAN, i. e. Great Yüan, in opposition to Siau-yüan, i. e. Little Yüan, a small country east of it and probably named after it. I am now inclined to look upon Yüan as the real name of the country, *ta* being an epithet placed before it as in the case of Ta-ts'in and Ta-yüé-chi. For, although our chapter is entitled 'Ta-yüan' and the country is so styled especially in Chang K'ien's own report to the emperor, Yüan without the prefix *ta* is, in our text, often used for it, not merely in combinations as in *yüan-ma*, 'horses of Yüan,' or *yüan kuei-jön*, 'the notables of Yüan,' but also in phrases where it could not well be interpreted as a mere abbreviation, e. g. *po yüan*, 'to defeat Yüan.' From paragraphs 101 to 103 it would appear that the population of Ta-yüan had many characteristics in common with the nations adjoining it in the west as far as An-si (Parthia). This seems to justify us in looking

upon Ta-yüan as a northeastern portion of the former Bactrian empire which, for some reason or other, may have escaped conquest by the Yüé-chi. The people grow rice, the cultivation of which must have come to them from India by way of Bactria (Hehn, *Kulturpflanzen und Haustiere*, 8th ed., 1911, p. 504 ff.), and store wine from the grape, in which respect they may have adopted the practice of Greek settlers in Bactria. It seems quite possible that the name by which such a semi-Greek population became known to the surrounding Tartar tribes, especially the Hiung-nu or the Wu-sun, from whom Chang K'ien may have obtained his first notice of the country, was Yavan, of which Yüan is a fair linguistic equivalent. For, 'the Yavanas are the Greeks of the Asiatic dominions and especially the Bactrians, situated just beyond the borders of India.' Cf. C. C. Torrey, 'Yawan and Hellas,' *JAOS* 25. 304; Dr. Edkins, in his paper 'What did the ancient Chinese know of the Greeks and Romans?' *J. China Branch, R. A. S.*, vol. 18, 1883, p. 5; E. Bournouf, *JA* 10. 233 f.; T. de Lacouperie, *Western Origin of Early Chinese Civilization*, p. 221.

TA-YÜAN (Ferghana), first known through Chang K'ien, 1; reached by Chang K'ien, 7; connected by postal roads with K'ang-kü (Soghdiana), 9; visited by Chang K'ien in person, 17; Chang K'ien's account of, 18-22; great, rich and civilized like China, 54; assistant envoy sent to, by Chang K'ien from Wu-sun, 72; horses from, stronger than those from Wu-sun, 79; restrained by reputation of Chinese victories near Lake Lopnor, 87; small countries east and west of, 92; best horses of, kept at the city of Ir-shi, 105; not afraid of an attack by the Chinese, 107; refuses to deliver the horses of Ir-shi, 108; first army sent against, fails, 110-113; second campaign decided upon, 114-116; its organization, 117-119; city of the king of, has no wells, 117; Chinese army reaches, 120; battle won by Chinese archers; Ta-yüan army takes refuge in city, 121; water supply cut off and city invested, negotiations for peace resulting in the delivery of horses and the establishment of Chinese supremacy, 122-124; campaign against, occupies four years, 131; kings of, see MU-KUA; MEI-TS'AI; CH'AN-FÖNG.

TA-YÜAN AND AN-SI, countries between: language, 101; appearance and character of the people, 102; position of women, 102; have no silk or varnish, 103; taught melting and casting of metals by Chinese, 103.

TA-YÜÉ-CHI, see YÜÉ-CHI.

TI tribes, prevent expedition to India, 56.

T'IAU-CHI (Chaldea), in the west of Parthia, 38, 39; described, 40-45; governed by petty chiefs, considered a foreign country by Parthia, 43; legends of Jo-shui and Si-wang-mu, 45; regular missions to, 79.

T'ÏEN-MA, 'heavenly horse' (the wild horse?), 19, 79. (Regarding the legendary origin of the 'heavenly horse,' see SHI-KI, Chavannes, 3. 236 f.)

TIEN-YÜÉ, country on the supposed road to India, 57.

TÖNG KUANG reproved for advising discontinuance of war against Ta-yüan, 116.

TRADE, in An-si, 35; in Ta-hia, 49, 51; from China to Bactria via India,

53; smugglers from Shu (Ssü-ch'uan) send goods to Tién-yüé on the road to India, 57; between China and western countries dates from Chang K'ien's mission, 77; by caravans to and from Western Asia stimulated by demand for good horses, 79; *see also* CARAVANS; EXPEDITIONS; TRIBUTE.

TRANSCRIPTIONS (of foreign sounds): (Ta-) Yüan = Yavan; Luk-li = derivative of *uluk*, great (?), 12; p'u-t'au = *βέρπυς*, 19; An-ts'ai = Aorsi, 28; An-si = Arsak, 30; Shön-tu = Sindh, 52; muk-suk = burchak (?), 100; Ir-shi = Nish, *Νῆραία* (?), 105. (Note that final *r* may be represented by final *t* or final *n* in old Chinese not later than the 13th century, cf. Hirth, 'Chinese Equivalents of the letter R in Foreign Names,' in *Journ. China Branch, R. A. S.*, vol. 21, 1886, p. 214 ff., or by final *k*, cf. T. de Lacouperie, 'The Djurtchen of Manchuria,' *JEAS* 21. 436.)

TRIBUTE brought by Parthia and small countries on the way to China, 92. TSANG-KO, a district comprising parts of modern Ssü-ch'uan, Hu-nan, Kui-chón and Kuang-si, 80.

TS'ÏEN, a small country in the west of Ta-yüan, 92.

TSIEN-MI, a notable of Ta-yüan, captured at the siege of the city, 122.

TS'IN, a man of, i. e. a Chinese, 122.

TSIU-TS'ÜAN, district near the Great Wall, established to facilitate trade with Far West, 79; military stations near, 89, 135; army to protect boundary in, 118; resident military governor appointed for, 134.

TS'ÜN-TS'Ü, title of the son of the crown prince of Wu-sun, 71; given Chinese princess in marriage by his grandfather, the K'un-mo king, 90.

TSO-YÉ, MARQUIS OF, *see* CHAU PO-NU.

TSUNG-P'IAU, *see* CHAU PO-NU.

TUN-HUANG, near old seats of Yüé-chí, 29; locusts near, 111; Chinese army returns to, 111, 113; second army leaves, 116, 119, 125.

TU-YÜ, title of a resident military governor, 134.

VARNISH, 103.

VINE, seeds of the, (seedlings?) imported from Ta-yüan and planted near the Imperial summer palaces, 100; *see also* WINE.

WAGONS and carts with army against Ta-yüan, 119.

WALL, *see* GREAT WALL.

WANG K'UI, leader of caravans to the west, 85; created Marquis of Hau, 88; attached to the army against Ta-yüan, 110.

WANG SHÖN-SHÖNG, military governor, defeated and killed on an expedition to Yü-ch'öng, 124.

WEI KUANG, general sent against the K'un-ming tribes in 109 B. C., 82.

WESTERN SEA (*si-hai*), *see* SEA, WESTERN.

WHEAT (barley?), grown in Ta-yüan, 19; in An-si, 31.

WINE, grape, in Ta-yüan, 19, 99, 100; in An-si, 31; *see also* VINE.

WOLF, a She-, becomes legendary wet-nurse of king of Wu-sun exposed in wilderness, 62. (Note that a she-wolf is mythologically connected with the origin of many Turkish tribes, which may also account for 'the symbolic use by them of a wolf's head at particular functions,' cf.

E. H. Parker, *A Thousand Years of the Tartars*, p. 178; Kingsmill, *JRAS* 14. 85 n.

WOMEN influence husbands in countries between Ta-yüan and An-si, 102.
WÖN-SHAN, a district corresponding to modern Máu-chóu in Ssü-ch'uan, 80.

WRESTLERS, 95.

WRITING, in Parthia, 37.

WU-SUN (a nation in the neighborhood of Lake Issyk-kul, on the southern slope of the T'ien-shan, according to Sü Sung, *Si-yü-shui-tau-ki*, chap. 4, p. 11, whither they had migrated from Kua-chóu, their former homes at the time of the Contending States during the fifth and fourth centuries B. C., according to the scholiast in *Shi-ki*, 110, p. 12; cf. *Ts'ien-han-shu*, chap. 96 B, p. 1 B, and other passages; cf. also Shiratori, p. 103 ff.; probably of Turkish stock like the Hiung-nu; cf. note under WOLF, Shiratori, *op. cit.*, and Franke, pp. 17-21), in the northeast of Ta-yüan, 22; a nomad nation like the Hiung-nu, 25; formerly subject to Hiung-nu, 26; legendary origin of their King K'un-mo, 62; retreat from their original territory among the western Hiung-nu to the more distant west, 64; maintain their independence, 65; Chang K'ien proposes their filling vacant territory near western boundary of China and bribing them by presents and the marriage of their king with a Chinese princess to become friends of China, 66; Chang K'ien's expedition to, 67-74; court ceremonial of, corrected by Chang K'ien, 68; declines to move to the east, 69, 70, 71; guides, interpreters, and other natives accompany Chang K'ien back to China, 73; and return to their homes full of the impressions they have received of China's greatness, 76; missions to China interfered with by Hiung-nu, so that Wu-sun asks for a Chinese princess in marriage, 78; horses from, compared with those from Ta-yüan, 79; restrained by reports of Chinese victories near Lake Lopnor, 87; a Chinese princess sent for marriage to, 90; rich in horses, 91; China's prestige with, depends on success in far-western warfare, 115; not very quick in complying with Wu-ti's wish to attack Ta-yüan, 127.

WU-TI, the emperor (generally referred to as the Son of Heaven, Wu-ti being his posthumous designation), informed of their flight to the west, anxious to find the Yüé-chi as allies against the Hiung-nu, 3, 4; falls in with Chang K'ien's plan of extending Chinese sphere of influence to Western Asia, 54; approves of Chang K'ien's scheme of befriending the Wu-sun nation, 67; consults 'Book of Changes' about horses; his craze for western horses develops caravan trade, 79; highly pleased by results of mission to Parthia, 92; likes company of foreigners, 95; feasts given to them lay the foundation for the popular taste among the Chinese for the performances of jugglers, wrestlers, mummers, etc., 95; creates vineyards and lucerne fields, 100; his fondness for the horses of Nish (Ir-shi) becomes the source of a campaign against Ta-yüan, 106-110; angry at Li Kuang-li's failure to punish Ta-yüan, 113; his ambition about China's reputation in western Asia, 115; tries to engage Wu-sun

to fight Ta-yüan, 127; foreign princes anxious to be presented to, 128; bestows rewards on generals, 130.

YAU TING-HAN, former ambassador to Ta-yüan, proposes war, 110.

YELLOW RIVER, *see* Ho River.

YÜ-CH'ÖNG, city on the eastern frontier of Ta-yüan, Chinese envoys intercepted and killed at, 109; first Chinese army against Ta-yüan routed at the siege of, 111; Li Kuang-li avoids, 122; reconnoitering body of Chinese troops defeated by, 125; invested by the Chinese, 126; its king pursued to K'ang-kü, delivered, and killed, 126.

YÜE (= Nan-yüé), 5, 57; wars against, in 112 B. C. referred to (†), 80.

YÜE-CHI (Indoscythians; for an exhaustive digest removing many prejudices entertained by European scholars, cf. Franke, p. 21 ff.), their disappearance from the neighborhood of China reported to the Emperor Wu-ti by Hiung-nu (Hun) prisoners, 3; desired by the Chinese as allies against the Hiung-nu, 3, 4; Chang K'ien conducted to, 9; defeated by the Hiung-nu, conquer Ta-hia (Bactria), 10, 29, 49; visited by Chang K'ien in person, 17; in the west of Ta-yüan, 22; politically influence K'ang-kü, 27; described, 29; popular customs of, like those of Hiung-nu (of An-si according to *Ts'ien-han-shu*), 29; old seats and migration to the west, 29; capital and court north of the Oxus (somewhere about Bukhara), 29; strong in military, 54; assistant ambassadors sent to, 72; ambassadors to, passed south of Wu-sun, 78; population on the road to, beyond Wu-sun help Hiung-nu rather than Chinese envoys by supplying provisions, 98.

YÜE-SUI, a district on the boundary of Yün-nan and Ssi-ch'uan, 80.

YÜ-MÖN GATE, in the Great Wall, line of military stations near, 89; closed up, 113; Chinese second army returns to, 129.

YÜ-PÖN-KI, 'Life of the Emperor Yü,' Ssi-ma Ts'ien's view of its wonderful tales, 136. (This is not one of the chapters styled *pön-ki* and devoted to the lives of emperors by Ssi-ma Ts'ien himself, but a work not preserved in our days, cf. Chavannes, I. clxxii f.)

YÜ-TIEN (Khotan), east (*sic*) of Ta-yüan, 22; the watershed of rivers in Central Asia, 23; produces jadestone, 23; assistant envoys sent to, by Chang K'ien from Wu-sun, 72; quarries near, yield jadestone brought to China, 93; Yellow River supposed to rise near, 93.

ARABS AND TURKS

J. F. SCHELTEMA

NEW HAVEN, CONNECTICUT

The unpleasantness between the Arabs and Turks, now thrust upon the attention of the world by one of its latest developments, the rebellion of the Grand Sharif of Mecca against his suzerain at Constantinople, is not at all of such recent growth as some appear to think. Ever since the Abbasid Khalifs of Baghdad became puppets in the hands of their Turkish praetorians, and the effective assistance which Ertog̃ul and his four hundred of the Ottoman clan gave to the Seljuq Prince 'Alī ad-Dīn established their military ascendancy, no love has been lost between those usurpers of power in Islām and the children of the land of its birth, its Holy Land. From the moment Turkey began to dominate or rather to try dominating Arabia, Arabian revolts against Turkish rule were therefore a matter of course, and all along hardly a year elapsed without one or more being in progress here or there between the Red Sea and the Persian Gulf, the Syrian Desert and the Indian Ocean. Far from imitating the Romans, who had overrun Asia Minor and adjacent territories from the West, always studious to obliterate racial differences, the new conquerors from the East, disdaining even the prudent policy of the earlier warrior statesmen of their own creed, did not care for the amalgamation of their subject races; in fact there was no homogeneity among themselves. The Turks despised the Arabs for their excitable temperament and the Arabs found food for ridicule in Turkish indolence, in the sluggish workings of the Turkish mind. Between Arab and Turk, physically and mentally in marked contrast, no attraction or accord was possible. Hence the sons of the shadowless desert under a cloudless sky, refractory already in their allegiance to the chiefs appointed by their common consent, proved superlatively troublesome to their intrusive Khalifs of the house of Othman.

Excepting those who had private reasons to put up with it, the Arabs did not acknowledge the Ottoman Khalifate as an institution decreed by God. For them the claims to suzerainty

of the Ottoman Sultan did not rest on any spiritual right which might be conceded to one of the Quraish, the elect among their own tribes, but on the right of might, provided that it could compel obedience. We do not intend to discuss here the significance of the Khalifate in general or the legitimacy of the Ottoman Khalifate in particular: suffice it to say that whatever authority it wished to exercise in the Arabian Peninsula had to be supported by main force. And so the Ottoman Sultan's mailed fist constituted his title to control over the Hijāz with the rest, pre-eminently over Mecca, the honored, and Medina, the lustrous, from the guardianship of which *de facto*, if not *de jure*, conversely his title to the Khalifate was partly derived,¹ notwithstanding the circumstance that at various times in the history of Islām its Holy Places and the Khalifate managed to do very well without each other. The mailed fist of the Osmanly 'Servants of the Sacred Cities,' like that of the Umayyads, Abbasids, Fatimids, or whatever other name the absent *soi-disant* rulers of Arabia went by, wielded no sword of the Dzū'l-Faqār type, invincible, coercing and constraining every one. The descendants of 'Ali, son-in-law to the Prophet and that famous blade's famous owner, were among those who most strenuously objected to and resisted interference from outsiders in their country's affairs, which they preferred to run at their own sweet will, a feature of the situation which gave higher zest to the Arabs' intertribal animosity and resulted in the birth of several quasi-independent, everlastingly quarreling principalities.

In the Hijāz the principality of Mecca, risen from such beginnings, made no exception to the rule of endless warfare prompted by vendetta and the exigencies of retaliation, which pleasantly occupied the first families of the land striving to extend their influence with the extension of their ancestral estates. Between

¹ The five titles on which the Ottoman Sultan's right to the Khalifate rests with sufficient strength, according to the learned expounders of the law who support his claims, to overrule the requirement implied in the seventh condition of capacity, namely that of lineage, are (1) the title conferred by the sword; (2) the title conferred by election; (3) the title conferred by homage or the promise of allegiance; (4) the guardianship of the Holy Places; (5) the possession of the sacred relics, among which are especially venerated one of the Prophet's teeth, a few hairs of his beard, his mantle, and his standard, the 'majestic cypress of the garden of victory.'

raids on tribes and clans beyond the pale of close relationship, the members of the same family fought one another for a lion's share in the division of their plunder, especially when the death of their leader caused disagreements over his succession engendering armed conflicts among his kith and kin in the course of its constant redistribution. Abū Muḥammad Ja'far of the Mūsāwī, a branch of the Hasanids, seized Mecca at a date between 951 and 968. As the first Grand Sharif, i. e., chief of the sharifs in the proper sense of the word, he restored comparative order in the chaos born of the destructive inroad of the sectarians who, following the doctrine of Ḥamdān Qarmat, had violated the sanctuary and carried off to their capital the Ka'bah's hallowed black stone, which they kept for ten years. The Grand Sharifate did not inaugurate unbroken tranquillity for a country the unending feuds of whose inhabitants meant incessant turbulence with the passing of authority from one hand to the other until the Ḥashimites contrived to make themselves felt in the greater part of the Hijāz and kept it in some degree subservient to their will during the latter half of the twelfth century. Yet, their lordship, even over Mecca, neither acquiesced in nor disputed by the Abbasid Khalifs, did not remain uncontested by the robber-knights swarming round, least of all by the bellicose princelings who ruled in Medina. Consequently their Meccan domain, increasing or decreasing as luck of war decided, waxed and waned like the moon going through its phases. More often than not Tāif belonged to it on the East and Jeddah on the West side, the possession of the harbor adding to the townspeople's facilities for fleecing the pilgrims, 'Allah's guests,' whose entertainment was, and still is, the vocation of 'Allah's neighbors.'²

At the opening of the thirteenth century an enterprising chieftain, named Qatāda, made an end to the Hashimite dynasty. Also left practically alone by their overlords, he and his successors of his family had no less hard a struggle with enemies of their own kindred to retain their grip on the Grand Sharifate of Mecca. Nevertheless they succeeded in holding it without interruption for six hundred years. About the middle of that

² At Medina the pilgrims become 'guests of the Prophet,' subject to the tender mercies of the vicarious hospitality dispensed by *his* 'neighbors,' the inhabitants of *that* town.

period of their tenure, in 1517, the Hijāz shared the fate of Syria and Egypt, becoming a province of the Ottoman Empire. The Grand Sharif Muḥammad Abū'l-Barakāt paid homage to Sultan Salim I, sending him on a silver platter the keys of the Ka'bah. Submitting to the military autocracy of the house of Othman, which borrowed higher luster from a moribund theocratic despotism molded on the orthodox Muhammadan last, the Grand Sharifs gradually divested themselves of the Shī'itic tendencies whose now unserviceable political drift had made them live on terms of intimacy with the Zaidites of Southern Arabia. Starting, as Sunnites of the Shāfi'ite denomination, a persecution of their former friends, their orthodoxy was, however, tainted with the laxity and abuses which human weakness had introduced into Islām, tarnishing its original precepts.

In 1770 a comet, traversing the heavens in the manner predicted by the poet al-Fāsi, portended great events. The teachings of the Sheikh Muḥammad Ibn 'Abd al-Wahhāb (born in the Najd at some time between 1691 and 1703) had begun to incite a puritanic movement which was destined to stir Islām profoundly, growing in strength with the adherence, in 1742, of the Amir Muḥammad of the Banū Sa'ūd at Dar'iyah. Not less fanatical than the Qarmatians, the Wahhābites, those protestants of Islām, as they have been called,³ marched up to the Holy Cities for their work of purification at the center of corruption. Surrendered to them in 1803 and evacuated and beleaguered again, Mecca, like Medina, experienced bad days and the Grand Sharifate, then held by Ghālib, son of Masā'id, received a blow that nearly smashed its power. Sultan Mahmūd II, whose Turkish troops had been unable to reduce the insurgent reformers to obedience, charged Muḥammad 'Alī, his Egyptian vassal, with the task of stemming the tide of their invasion. Muḥammad 'Alī confided the command of the expeditionary force of ten thousand men he despatched for that purpose in October 1811, to his favorite son Tussūn, a youth of sixteen, whose indifferent generalship, though Medina was recovered after initial reverses, obliged him in 1813 to take the field himself. But it was only after Tussūn's death that Ibrāhīm, another son of

³ As enthusiastic advocates of unadulterated monotheism, they call themselves unitarians.

Muḥammad 'Alī, threw the Wahhābites definitely back, entering Dar'iyah, September 9, 1818, and conquering the Najd, where he left a division of his army under Ismā'il Pasha to keep them quiet. Their Amir 'Abd Allāh, great grandson of Muḥammad, grandson of 'Abd al-Azīz, who had led them in their first successful campaigns, and son of Sa'ūd who had 'cleansed' the Holy Places, was deported to Constantinople and beheaded. The Sultan's dependence on aid from Egypt did not enhance Turkish prestige in Arabia which, until 1840, was governed, in so far as an orderly government existed, rather by his contumacious Viceroy in Cairo than by his Sublime Porte. But the Qatāda family profited by this state of affairs, reigning once more supreme in Mecca and domineering, as of old, a never clearly defined portion of the Hijāz and sometimes of the Yaman too, down to Hali.

The Amir Turki of the Banū Sa'ūd, son of the ill-starred 'Abd Allāh, effected about 1824 a reorganization of the Wahhābite community in the Southern Najd, choosing Riadh for his capital. Meanwhile, with the co-operation of Khālid Pasha, Ismā'il Pasha's successor, a rival tribe was coming to the front in the Northern Najd. They were the Banū Rashīd who, driven into exile as the result of a feud with the Banū 'Alī, had cleverly turned the tables on that leading clan of the Jabal Shammār with the aid of the Banū Sa'ūd themselves, establishing their capital at Hail. The expedition to Riadh, undertaken in 1836 by order of Muḥammad 'Alī, heightened the importance of the chiefs of the Banū Rashīd. These, unscrupulous in their methods, while enjoying Egyptian and, after 1840, Turkish protection, repaid with base ingratitude the assistance they had been fain to accept from the Banū Sa'ūd. But the Wahhābite zealots did not lose heart, confident in the righteousness of their cause, giving tit for tat. Constant friction with their upstart betrayers was the result until the latter, having settled once for all with the Banū 'Alī in the North, resolved to break, too, the vexatious obstruction their forays and encroachments met in the South. So, in the beginning of the present century, under a Bin Rashīd who arrogated the dignity of King of Arabia, they girded themselves to a grand effort and smote the Banū Sa'ūd hip and thigh, storming Riadh, which they made their southern capital. Encouraged by the success of their arms, the Banū Rashīd

marched also East to expand their Arabian kingdom still farther at the expense of the Shaikh Mubārak of Kuwait.

This ambitious design wrought in the end their ruin, highly beneficial as it proved to the Wahhābites for, though the Sheikh Mubārak's men, reinforced by the Muntafiq Arabs of the lower Euphrates, after a victory which opened to them the gates of Hail, were surprised on their way back and badly beaten, the sly old fox of Kuwait persuaded the Amir of the Banū Sa'ūd to conclude an alliance with him for the overthrow of the common foe. Then there were many encounters full of the savagely daring feats of ancient Arabian warfare. Sometimes the Banū Rashīd and sometimes the Banū Sa'ūd had the best of it, the theater of their strife and principal bone of contention being the border district of Kasim with the important towns of 'Anaiza and Buraida, centers of the lucrative trade in camels, horses and Indian merchandise that enriched the inhabitants, the Salaib, since the most remote times. At last the Wahhābites regained not only Riyadh, by means of a bold stratagem, but almost the whole of the Najd. In the decisive battle, which took place in 1904, near the caravan route between Kuwait and Mecca, the 'King of Arabia' of the Banū Rashīd was slain, his body and that of his horse falling, pinned together by an arrow, and being trampled underfoot by his followers in headlong flight before the onslaught of the Banū Sa'ūd 'whose spears sought lodgment in the breasts of their enemies so that when they went in with the naked sword, they found the field already cleared and small resistance offered.' This is in outline the history of the rehabilitation in their fastnesses of the Wahhābites, whose present Amir of the Banū Sa'ūd lives at peace, for the time it will last, with the Banū Rashīd, notwithstanding the latter's Amir maintaining his claim, with the assent of the Porte on the *divide et impera* principle, to so much of the Northern Najd as goes by the name of Shammār. Concerning the rigid tenets and austere habits of the Wahhābites we have the word of a recent traveler in those parts⁴ that most of them have been dropped or relaxed. Smoking, for instance, is privately indulged in, and during his stay at Riyadh as a guest of the Amir, seldom a night passed without one of the palace underlings visiting him to beg a little of the 'shameful,'

⁴ Captain G. Leachman of the Royal Sussex Regiment in the *Geographical Journal* of May, 1914.

as they call tobacco. Attendance at the five daily prayers was however enforced with the rod.

So much for Central Arabia, which is no more the Padisha's or anybody else's now than it ever was in its troublous past. Turning to the Yaman we see the same conditions of tribal animosity and armed conflict prevailing, although the Turks have nominally been in control (hardly even that in Hadhramaut) since they occupied that territory in 1872, thanks rather to the wily policy of General Mukhtar Pasha and Colonel Ashraf Bey than to their military exploits. It is true that the Yamanites forgot for a while their rivalries to support the Amir Muhammad Yaḥyā, son of the eminent Imām of Sanā, Sayyid Ḥamīd ad-Dīn, but the strain on their natural pugnacity was too great and soon their internal dissensions again handicapped them sadly in their passive resistance to the Turks. Even when in 1904 this passive resistance began to flame up in an open revolt which taxed the gallantry and discipline of the seventh Turkish army corps to its utmost, throughout the vicissitudes of the Turco-Arabic collision in the Yaman from the memorable siege and fall of Sanā to the recovery of that stronghold by Ahmad Faizī, August 3, 1905, lack of cohesion remained the worst obstacle that confronted the Arabs in their exertions to free themselves from the Turkish yoke. That yoke sat otherwise lightly enough, witness the possibility of violent antagonism which culminated in bloody affrays between contending factions of the theoretically subject population, practically at liberty to found quasi-independent kingdoms in the Sultan's domains for the pleasure of fighting over them to their heart's content. And as it was in Central Arabia and in the Yaman it was in the Hijāz where the 'Asir tribes rose in rebellion under the leadership of their principal Shaikh al-Idrisī, where the Badawī, esteeming themselves the genuine lords of the soil, cared neither for foreign rulers nor for self-constituted kings of their own race and made a very profitable business out of their pretended right to levy a toll from merchants and pilgrims for the privilege of using the caravan tracks; attacked the Hijāz railway and broke it up whenever they thought fit, because they considered it an infringement on that right, utterly unmindful of the Turkish officials, obeying or defying the Grand Sharif according to the changing character of their relations with Mecca.

Since the days of Sultan Salīm I, the Grand Sharifs or, as the official Turkish nomenclature styles them, Amirs of Mecca, have been formally appointed by the Porte. In most cases their appointment was, however, really decided in a conclave of the chief members of the Qatāda family, whose nominee, duly confirmed, knew how to uphold his virtual independence, and the Padisha had to resign himself to a predicament which kept the Hijāz from being incorporated with the Ottoman Empire on the footing of an ordinary vilayat: very exalted personages, as they say in the Maghrib, are sometimes severely harassed by insects of altogether inferior size. Though, after the Egyptian interregnum as before, a Turkish governor was provided for the express purpose of keeping within bounds the Meccan insect of the 'Alid genus and Qatāda species, its persistent activity occasioned a good deal of distress, especially in his Khalifal capacity, to the Sick Man at the Golden Horn, a sufferer already from too many too officious physicians on European thrones. In 1840 the Grand Sharif Muḥammad Ibn 'Aun⁵ was restored to the Hijāz after a four years' residence in Cairo as the unwilling guest of Muḥammad 'Alī. Intrigues of plotting kinsmen at home and in Constantinople compelled him in 1851 to resign in favor of the intriguing-in-chief 'Abd al-Muttalib. Yet in 1856 he was on top again to be succeeded in 1858 by his chivalrous son 'Abd Allāh, who with 'Alī, another son, had been in charge of the daily routine of the Sharifate during the ultimate term of their aged sire's exercise of authority. Husain, still another of his sons, succeeded 'Abd Allāh in 1877, but three years later, in 1880, we find 'Abd al-Muttalib installed once more.

At 'Abd al-Muttalib's final removal in 1882 (he died in 1886), 'Aun ar-Rafiq, a fourth son of Muḥammad Ibn 'Aun, was appointed notwithstanding the opposition of his younger brother Abdīlah, countenanced by the Turkish governor Othman Pasha. The discord between this strong, capable deputy guardian of the

⁵ During Muḥammad Ibn 'Aun's first term of office the influential Sharifs of Mecca in touch with the government, began to desert the Shafi'ite for the Hanifiite camp. By the end of the nineteenth century they were all Hanifites, which did not prevent their supporting the wishes of the Shafi'ite population in ritualistic matters against the occasionally excessive sectarian zeal of the Turks. See Snouck Hurgronje, *Mekka*, 1, which gives a comprehensive history of the Grand Sharifate.

Holiest and the new Grand Sharif coming to a head, the latter petitioned the Porte for the obnoxious Wali's recall and moved to Medina. Commanded to change places with Jamīl Pasha, governor of Aleppo, Othman Pasha left, and 'Aun ar-Rafīq returned in December 1886 to his post. Jamīl Pasha and Safwat Pasha and a few more officials of that stamp were no match for the energetic, wilful Prince of Mecca whose imperious temper they had to curb. One after another failed ignominiously, until the tactful, adroit Aḥmad Rātīb effected a sort of compromise. 'Aun ar-Rafīq was gathered to his fathers in 1905, and his aforementioned brother Abdīlah, nominated as his successor, died shortly afterwards when under way from Constantinople to the full realization of a life-long hope. 'Aun ar-Rafīq's nephew 'Alī, appointed in Abdīlah's place, hastily departed from Mecca, following the example set by his Turkish supervisor Aḥmad Rātīb, when the news of the revolution of 1908 reached him, and took refuge in Cairo. Thereupon Ḥusain Ibn 'Alī, another nephew of 'Aun ar-Rafīq, stepped in without concerning himself about the Porte's approval. His assumption of the title of Grand Sharif of Mecca already being a challenge to Turkish suzerainty, he went still farther by proclaiming on June 27, 1916, his complete independence as King of the Hijāz, chasing away the Turkish garrisons first of his capital, of Medina, and Jeddah, then those of Tāif and Yambu'. This epoch-making event, combined with the recent developments in the Near and Middle Eastern theater of the war, may have a far-reaching effect on the consequences of its final outcome.

BRIEF NOTES

A Word with reference to 'Emperor'-Worship in Babylonia

Professor Mercer has rendered a distinct service to his colleagues by massing in his article '*Emperor'-Worship in Babylonia* (*JAOS* 36. 360-380) many widely scattered bits of evidence on the subject. The writer regrets, however, that he is obliged to dissent from the main thesis of that article—a thesis which, stated in Professor Mercer's own words, is that 'Babylonians were always conscious of the humanity of their rulers, and though the distance between a god and a man was not great, yet they never seem to have mistaken the one for the other' (p. 377). In other words, he seeks to prove that there was no such thing as emperor-worship.

Professor Mercer's treatment of the material which he cites does not impress the reader as altogether unbiased. At every step of the argument effort is made to minimize the force of the facts which are cited. The writer is inclined to think that a fair-minded reader who knew nothing of the subject would be led to think that there must have been some real worship of emperors or kings, when the determinative for god is so often prefixed to their names. If, however, we were to grant that the evidence accumulated by Professor Mercer is not decisive, and that it is fairly capable of being interpreted as he has interpreted it, it must be noted that he has overlooked some very important evidence, and that the facts thus overlooked are fatal to his theory. I refer to the proper names contained in the *Haverford Library Collection of Cuneiform Tablets*, Parts I-III, Philadelphia, 1905-1914. Part III contains a list of nearly 3,300 persons, while Huber's list, the only one for the Ur-dynasty that Professor Mercer seems to have consulted, contains but about 5,100.

In Part II of this work, pl. 53, there is published a tablet (no. 10), which is dated in 'the year after the *E-bà-ša-iš* [read by some *E-ku-ša-iš*] of Dagan was built.' This was certainly during Dungi's lifetime. Thureau-Dangin thought in 1907 that it was the 39th year of his reign, while Myhrman in 1910 thought it his fiftieth year. The exact year is for our present

purpose irrelevant; it is enough that it was during the lifetime of the king. The tablet is a pay-roll, and the following men received stipends: *Lù-dun-gi* (Man of the god Dungi), *dun-gi-še-gál* (May the god Dungi protect), *dun-gi-ra-kalam-ma* (For the god Dungi is the land), *dun-gi-kalam-ma-ši-li-bi* (The god Dungi—the land is his delight), *dun-gi-à-uru* (The god Dungi is the reward of the slave), *dun-gi-a-du-kalam-ma* (The god Dungi is the counselor of the land), *dun-gi-ki-šar-šag* (With the god Dungi is great favor), *Ka-dun-gi-ib-ta-ê* (The word of the god Dungi goes forth), *Ama-dun-gi-e-Ur-ru* (The mother of the god Dungi is the goddess Urru), and *dun-gi-ú-nam-ti* (The god Dungi is the food of life). Can any one read these proper names¹ borne by men in Dungi's own lifetime, and doubt that real 'emperor'-worship existed in Babylonia?

The tablet which contains these names does not stand alone, but I will take time to cite but one other. *HLC* 52 (Part I, pl. 12) contains (obv. l. 9) the name *Tab-dun-gi-dNannar* (The god Dungi is the twin² of the god Nannar). This tablet is dated in the year Urbillum was destroyed, which was, according to Thureau-Dangin, Dungi's 43d year, but according to Myhrman, his 55th. The tablet was in any case written while Dungi was still living, and the name cited is alone sufficient to overthrow Professor Mercer's whole thesis.

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Takku

In publishing a preliminary translation of a new account of the creation of man (in this *JOURNAL*, 37. 36—40), the writer warned readers (p. 26) not to regard the rendering as final. The tablet is carelessly written and in parts has suffered from breaking. In working over the text again I have reached the conclusion that the divine name read *Tikku* should be read *Takku*, and that it is identical with the name that Langdon read

¹ The writer called attention to these and many other names which throw light on Sumerian religious conceptions in this *JOURNAL*, 34. 315-320.

² See the writer's *Origin and Development of Babylonian Writing*, No. 144¹⁸.

Tagtug in his so-called Epic of Paradise. The new text accordingly affords another welcome source of information concerning an enigmatical character that has been the cause of earnest discussion.

The volume in which the cuneiform text is to be published will, I hope, be in the hands of scholars before the end of the year. The readings of one or two other passages will be improved. The new readings will, however, only bring out more clearly the character of the document as already set forth in the JOURNAL.

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The Words 'law' and 'witness' in the South Arabic

The South Arabic פתח is to be interpreted from the Ethiopic *feth* and translated 'law.' This gives a satisfactory explanation of the opening phrase in Halévy's text 374 (also in Hommel, *Südarabische Chrestomathie*, p. 109), שכן פתח 'he established a law' (where Hommel has 'he instituted a canal'), interpreting the verb as a loan from the Assyrian *šakānu*. Then in Glaser 282 (Hommel, p. 115), line 7 contains the word twice, once in the context, לגז דן פתח, which may be translated 'to engrave this law.' This translation of פתח is corroborated by the succeeding part of the inscription.

There follows a date formula in the usual terms of an eponym. Then comes the word סמעם followed by two personal names, 'WS-Ili du-GND and Y'WS-Ili du-RPZN. I assume that סמעם means 'witness' (*sâmi'*), as in the Ethiopic, and that the word introduces the attestation of two witnesses (in the singular, as in the Elephantine papyri). This explanation is borne out by what follows, in which now for the first time we can get a consecutive reading for a good line of the inscription: וולו ועתהר וסתוקה סמע' דן פתח דגנר ורפון בצחפה אסמעסמן. This is to be translated: 'And assisted [in the French sense] and recorded and gave hearing the two witnesses of this law he-of-RPZN and he-of-GND in their witness books' (*biṣuhufi asmâ' isumân, ṣuhuf* being the plural of the good Arabic *saḥīfat*). This last phrase occurs also in Halévy, 199 (Hommel,

p. 102), and 51, lines 8 and 19; also in 244, 'the witness is in the gods of Má'an.'

The illumination of these terms throws light upon the legal processes of the South-Arabians. A law was published in stone and also attested by witnesses in their 'books' (of palm-leaves?). One thinks involuntarily of the episode in Isaiah 8. 1-2, which may have been an imitation of public usage.

P. S. Since writing the above I note באמר וצחפת, CIS 314. 8, which Halévy (*R. Sém.* 4 (1896), p. 83 ff.) correctly translates *verbo et scripto*, rejected by the editor Derenbourg. The passage has to do with written orders, which are dated, from the kings concerning the presentation of certain votive offerings. In line 9 I would interpret לצחק gerundively, *scribendo*.

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û as an Old Plural Ending of the Hebrew Noun

The *û*, as a plural ending is recognized in Hebrew in the verb only. But the Arabic, the Assyrian of the First Dynasty age, as well as the Old Egyptian (cf. Erman, *Äg. Gr.* § 189) use it also as a plural ending in the noun.

But traces of the old *û* in stat. constr. are still found in some passages of the Bible. It is in the first place found in the Ketib, which very often preserves older forms, but sometimes the old plural ending is preserved even without being modified by the Qere. Its true character as a plural ending can then be recognized either by the context of the passage in question, or by the testimony of the old versions.

The following are the passages in which the *û* as a plural ending has been preserved in the Ketib only: Jos. 6. 9: תקעו השופרות, Qere: תִּקְעוּ; Is. 47. 13: הברו שמים, Qere: הִבְרִי; Ps. 119. 79: וירעו ערתיך, Qere: וִירְעוּ; 1 Chr. 2.55: ישבו יעבץ, Qere: יִשְׁבּוּ.¹

The plural ending *û* is employed not only in the nominative, but also in the genitive and the accusative. Just as the plural

¹ Here perhaps belongs also 1 Chr. 6. 11: בנו אלקנה, Qere: בָּנֵי.

ending *im*, (*ê*), originally used for the genitive and accusative, has supplanted the original nominative ending *ûn*, (*û*), so also the *û* is found as plural ending in the genitive: 2 Kings 17. 13: **בִּיד כָּל נְבִיאָו כָּל חֹזֶה**. Qere: **נְבִיאִי**; and in the accusative: Hos. 8. 12: **אֶכְתּוּב לוֹ רַבּוֹתַי**. Qere: **יָרְבִּי**. It occurs also in the part. pass. 2 Sam. 5. 8: **שָׁנְאוּ נֶפֶשׁ דָּוִד**. Qere: **שָׁנְוִאִי**; and in the dual, Eze. 1. 8: **וַיְדוּ אֲדָם**. Qere: **וַיְדִי**.

There are also passages in which, as already mentioned, the plural ending *û* in the construct state is not indicated as such owing to its being changed in the Qere to the regular plural constr. ending *ê*. In such cases we have to look for other evidence to prove its plural character:—

Gen. 32. 32: **פְּנִיאל = פְּנִיאל**, *ibid.* 31 from the plural **פְּנִים** (1 Chr. 8. 25: **פְּנִיאל**, Qere: **פְּנִיאל**). Lev. 6. 3: **מִדּוֹ בָר**. Onq. and Jon. render it as **מִדּוֹ לְבוֹשֶׁן דְּבוּן**: **מִדּוֹ**. Perhaps also in 2 Sam. 20. 8: **וַיֹּאבֵב חֲגוּר מִדּוֹ לְקִשּׁוֹ**. Jer. 31. 24: **אֲכָרִים וְנִסְעוּ בְּעָרָר**. Aq. Sym. Jon. and Vulg. render **וְנִסְעוּ** as a participle = **וְנִסְעִי**. Ps. 107. 4: **תָּעוּ בַּמִּדְבָּר**. The parallels of verse 10, **יִשְׁבִּי חֶשֶׁךְ** and 23, **יִדְרִי הַיָּם**, make it probable that **תָּעוּ** is also a participle = **תָּעִי** (which reading has already been proposed; cf. Kittel ad. loc.).⁵

A plural ending *û* was already recognized by S. D. Luzzatto

⁵ Targ. Jonathan, ed. Lagarde, and the Syriac version read: **כָּל נְבִיא וְכָל חֹזֶה**.

⁶ The endings of the casus have frequently been disregarded, cf. e. g. Tuch, 'Sinaitische Inschriften,' *ZDMG* 3 (1849), p. 138: 'Rücksichtlich des Plurals lässt der Status constr. **בְּנִי** (Beer 133 ff.) = **בְּנִי** nur soviel erkennen, dass man **בְּנִי** u. **בְּנִי** dem casus nach nicht unterschied.'

⁷ The Samaritan reads: **מִדּוֹ**.—To Onqelos cf. Nachmanides ad. loc. who thinks that Onq. considered **מִדּוֹ** as a collective; but then we would expect **לְבוֹשֶׁהוּ**.

⁸ So perhaps we have to explain the rendering of the LXX of **וַיִּשְׁבּוּ בַּצִּלּוֹ** Eze. 31. 17, as **וַיִּשְׁבּוּ**, and of Ps. 76. 7: **נִרְדְּמוּ וַיִּכְבְּדוּם** as **נִרְדְּמוּ וַיִּכְבְּדוּם** (so also the Syriac version) in which case we shall have only the transposition of the **ו** and **וַיִּכְבְּדוּם**; and the rendering of the Syriac version of Ps. 97. 10: **וַיִּשְׁבּוּ** as **וַיִּשְׁבּוּ** (as also a few Mss.).

in the much discussed **כלה מקללני**, Jer. 15. 10. In a letter dated December 9, 1836, he writes:

“כלה מקללני. נראה לי לקרוא מקללני. מקללים אותי, כמו בתלמוד ירושלמי (דמאי פ”ז) דאינן מחדשונך “שהוא כמו מחדשין יתך.”

In the Aramaic parts of the Talmud *û* as plural ending of the participle occurs very often, cf. Margolis, *Lehrb. d. Aram. Spr. d. Talmuds*, p. 40 ff. Margolis, it is true, considers it as a later form developed by analogy of the perf., but may we not assume that it represents the old plural ending *û*?

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Burkhan

With reference to my note on the word *Burkhan* (in the JOURNAL, 36. 390—395) I now note that R. Gauthiot (*Mélanges Sylvain Lévi*, Paris, 1911, p. 112) had already opposed the theory of Baron A. von Staël-Holstein of Petrograd. Gauthiot regarded that etymology as ‘very doubtful,’ and remarked (in the same manner as I did) that compounds of this kind do not exist in Turkish. Moreover, he justly emphasized that the historical facts run counter to such a conception of the term, and that the history of the expansion of Buddhism in the Iranian regions toward the northwest of India and the fluctuations of Chinese influence in Central Asia render that theory rather improbable. While regretting that I overlooked Gauthiot’s comment, I am glad to find myself in full accord with the opinion of that eminent philologist, whose premature death we have every reason to deplore.

In regard to the Manchu term *Fučihî*, Professor P. Schmidt, now president of the Oriental Institute of Vladivostok, has been good enough to write me that he regards *-i-hî* as a suffix added to

מערכי **אנרות שר”ל**, p. 361. So also Steinberg in his Hebrew Grammar **פְּלָהִים** **מִשְׁפַּטֵּי הָאוֹרִים** he suggests to read **פְּלָהִים** **קָלְלוּנִי** (Baer reads **קָלְלוּנִי**) but we would rather expect the imperfect instead of the perfect, cf. also Kittel *ad loc.*—The use of the participle with the plural ending *û* when combined with a suffix occurs also in the **פִּיט** for Shebu’oth: **הַמְלִיכִים אוֹתָךְ = הַפְּלִיטוֹן לְבוֹשׁ עֲרִינִים**.

the stem *Fut*, pointing to such analogous formations as *guč-i-hi*, *ginč-i-hi*, *sol-o-hi*, *tarb-a-hi*, *tarb-i-hi*. This explanation is quite satisfactory.

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PERSONALIA

Professor JOHN WILLIAMS WHITE, of Harvard University, died May 9, 1917. He was professor of Greek at Harvard from 1884 to 1909, and was one of the founders of the American School at Athens. He became a member of the American Oriental Society in 1877.

MORTON WILLIAM EASTON, Ph.D., Emeritus Professor of English and Comparative Philology at the University of Pennsylvania, died Aug. 21, 1917. He was born in 1841 in Hartford, Conn., and completed the course in medicine at Columbia in 1865, but returned to philology, taking his degree in Sanskrit at Yale.

He was called to the classical chair at the University of Tennessee in 1873, and came to the University of Pennsylvania in 1880. His subjects ranged from Sanskrit to English, in all of which he was a profound student and a most distinguished teacher. He directed the presentation of the first Greek comedy to be given in this country, the *Acharnians*, presented in 1886 by students of the University of Pennsylvania.

TIGLATH-PILESER I AND HIS WARS

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Early Assyrian history is by no means attractive to the student who most enjoys historical problems. The annalistic form of inscription has not yet developed and the narrative tends to thin out into bare lists of rulers or records of building operations, broken here and there by a few high-sounding titles which speak of not far distant conquests or of equal struggles with the former suzerain Babylon. Careful study may give a certain amount of life to the picture, but, when all has been said, true history begins only with the first Tiglath-Pileser. For the first time we have true annals, and from these annals we can construct a picture with the details necessary to make the account live.¹

At his accession, Tiglath-Pileser found a small enough country. The days of Tukulti-Ninib were past and Assyria had since seen serious losses on all sides. Least dangerous were those on the south for Babylon too had suffered decay, though still strong enough for an occasional raid. The boundary was back again at the Lower Zab and all the debatable ground was in Babylonian hands. On the west, Assyrian control ended with the steppe across which Arabs from south of the Euphrates roamed at will. To the north, the frontier was dangerously near, the first line of the foothills, and to the east it is not clear that all the Assyrian triangle had yet come into his hands. Raids there might be into the mountains to north and to east, but of conquests there was as yet none to boast.

The half century of decline had given opportunity for various Asianic peoples to work their way into the regions which had once owed at least nominal allegiance to the Assyrian monarchs.

¹ The present paper has two main purposes: to interpret the wars in the light of the broader considerations of a political nature and to study the topography. The former is the natural development of the preliminary source study already published in the author's *Assyrian Historiography*. The latter incorporates investigations made in connection with the Cornell Expedition which in 1908 visited many of the sites here discussed.

Among these were the Mushki, fated to give their name to the great eastern Asia Minor city of Mazaka, long after they themselves as the Moschoi of the classical authors had been forced into the mountains far to the north.² They had 'come down,' probably from the vicinity of the modern Harput, whence another branch seems to have proceeded up the valley of the Tokhma Su to settle Mazaka, and had occupied the lands of Alzi and Purukuzzi, the level and fertile triangle stretching down from near the source of the West Tigris to the great bend at Amedi. It was bad enough to lose this rich agricultural plain, not to speak of the copper mines in the hills just to the north, but when to the loss of this region which 'paid the tribute and tax of the god Ashur' was added that of Qummuh, the even more fertile country between the Tigris and Mt. Kashiari, it was clearly time to act.³

At the very 'beginning of the reign,' Tiglath-Pileser 'collected his chariots and his foot soldiers' and marched forth from his capital of Ashur. Straight across the steppe he went to Mount Kashiari, the first range of hills which stretched from east to west along the northern rim of the plain.⁴ Through this he hastened, in spite of the difficulty of the country, and engaged with their five kings and their twenty thousand troops in Qummuh. 'The bodies of their warriors like the Storm God I hurled down. Their blood in the ravines and on the heights of the mountains I made to flow down. Their heads I cut off, by the side of their cities like grain heaps I piled up. Their spoil, their property, their possessions to an unnumbered quantity I brought out.'

² A trace of this eastern branch of the Moschoi is found in the Biblical table of nations, Gen. 10. 23, where the Greek Mosoch and the Meshek of the parallel 1 Chron. 1. 17 show that here too we must read Meshek for the unique Mash of the traditional text. The context proves that it is in Mesopotamia, that is, not far from the location postulated by the Annals of Tiglath-Pileser.

³ Reached by passing through Kashiari, the modern Tūr 'Abdīn, and then crossing the Tigris, Qummuh must be the level country south of the east-west course of the western Tigris between Diarbekr and Ḥassān Kēf; cf. Rawlinson, *Monarchies*, 2. 64, n. 8. It should not be confused with the later Commagene to which it gave its name.

⁴ Maspero, *Hist. Class.* 2. 643, n. 3, has seen that the route must have been to Sinjār and around the western end of the range.

While Tiglath-Pileser thus marched through the Qummuh region, plundering and burning, the wretched inhabitants fled across the Tigris to the fortress of Shereshe. But the Assyrians pursued them 'through the difficult mountains and the blocked paths,' hewing a way for the passage of the troops with bronze axes, crossed the Tigris, and took the stronghold.⁵ Then, still on the north of the river, he was forced to fight with the hordes of the Qurhi who had advanced to the aid of the people of Qummuh. These too were defeated and the river Name carried their dead bodies to the Tigris.⁶ The chief of the Qurhi, who bears the very 'Hittite' name of Kili-Teshub, the son of Kali-Teshub, who was also known as Irrupi,⁷ was captured in the battle, and with him his wives, his sons, and his retainers, a family group such as we still find to-day among the Kurds of this very region. Perhaps as much interest attaches to the booty, 180 bronze vessels for unguents, five copper jugs, gods of gold and silver—further proof, if proof were needed, that we are not far from the mines. The fort Urratīnash, situated in Mount Panari, was in the hands of another chieftain with the equally Asianic name of Shadi Teshub, the son of Hattuhi. When Tiglath-Pileser crossed again to the south side of the Tigris, Shadi Teshub came into the Assyrian camp and without further hesitation embraced the feet

⁵ Sachau, *ZA* 12. 51, identifies Shereshe with the Sareisa of Strabo 16. 1. 24, which may be the Shurishidash of the Menuash inscription, Sayce no. 32, as well as the Hittite city of Sayce, *PSBA* 21. 196, but the context in Strabo speaks for a city more to the north. Sayce sees in it also the Sarisu of the Hittite treaty. It has nothing to do with the Sirishai of Shalmaneser III, Mon. 1. 18, which is in Kirruri and so east of the East Tigris.

⁶ The earlier identification of Name with *Nimme* must be given up, as the Tigris Tunnel Inscription, Lehmann, *Sb. Berl. Akad.* 1900, p. 625, gives this as *Tu-um-me*.

⁷ Cf. Jensen, *ZDMG* 48. 475.—In the Scheil fragment, *RT* 22. 157, 'Hatte completely tribute, tax, and 'Teshub king of Hat [te]' comes immediately after mention of Arvad and before an expedition against the Ahlame or Aramaean nomads. Streck, *ZA* 18. 186, n. 2, restores the name as Kali Teshub and Winckler, *OLZ* 4. 296, would then be justified in taking it as proved that Qummuh and Hatte are equivalent. Unfortunately, the contexts of the two passages are entirely different and the passage in the Scheil fragment follows an event which cannot refer to any of the first six years. Therefore the theory fails.

of the conqueror. His sons and the members of his clan were taken as hostages and we hear again of the bronze unguent holders, of the copper jugs, and of the great copper sacrificial bowls, some of which were considered valuable enough to be presented to the Assyrian deities.*

The accession of Tiglath-Pileser must have taken place early in the year, for he was enabled to carry on a second campaign in this 'beginning of the reign' against the land of Ishdish, which in this century was located in the rough country forming the eastern part of Mount Kashiari.⁹ With his foot-soldiers and thirty chariots—no commentary is needed to show how small this terrible army really was—he marched through mighty mountains and rough country until he reached Mount Aruma.¹⁰ 'I abandoned my chariots, the head of my warriors I took, like a shepherd I was bold, on the peaks of the high mountains triumphantly I advanced. The land of Ishdish like the deluge ruins I overthrew.'¹¹

The second year, or rather, to use the Assyrian method of reckoning, the first of the reign, saw Tiglath-Pileser again on the northwest frontier. Qummuh had been sufficiently tamed the preceding year to allow an advance into the lands of Alzi and Purukuzzi which were now formally added to the Assyrian

* For the earlier events, we have two nearly parallel accounts, Ann. 1. 70-88 and 1. 89-2. 16. Pancritius, *Kriegführung*, 51, works out a *Dreibund* of tribes which must be met by three Assyrian divisions, but what she takes as signs of separate armies are in reality indications of incomplete joining of sources, still further confused by the hazy idea the scribe had of the whole operation and by the desire to pad it out as much as possible for the greater glory of the king. The country does not permit, much less demand, such a scheme of separate armies as Pancritius, following Billerbeck, has devised. Pancritius, 54, is right in making the crossing south of Amedi. It may well have been at Battal Tepe near the bend where we found a deep ford.

⁹ Usually read Mil-dish, but for Ishdish and Uishdish cf. Olmstead, *Sargon*, 105, n. 12. The location there given, naturally, is correct only for the days of Sargon, when, as in so many other cases, the names had wandered far.

¹⁰ Not to be connected with the Urume or Arime, the Aramaeans, with the Kirhu mountain Arua of Ashur-nasir-apal, Ann. 1. 60, which was north of the Tigris, or with the classical Urima, as Schrader, cf. *ZA* 14. 168.

¹¹ Ann. 2. 63 ff.

domain. Then came the winning back of Shubarti, which had been occupied by another group of Asianic peoples, the Kaski, the Urumi, and the men of the land of the Hatte, in the last of whom we are probably to see a remnant of the men from the great Hittite empire, driven out of Asia Minor by the pressure of fresh hordes of Indo-Europeans. Shubarti was won back with a booty of 120 chariots and of 'yoked teams,' another trace, no doubt, of Hittite influence, since we know what part the chariot played in their warfare. To end the campaign, Qummuh was once more ravaged and then added to the borders of Assyria.¹²

The third year, the war was carried on somewhat more to the east but still among the Qurhi. The first attack was on Haria, the army passing between Mount Idni and Mount Aia. When the mountains were reached, 'sharp as the point of a dagger,' the chariots were again left behind and the march continued on foot. A battle with the Qurhi took place on Mount Azu and then the king could attack the cities on the mountain-tops and those of Haria at the foot of the mountains. The campaign was a mere raid, for we have no decisive results mentioned and we may be sure that none were secured.¹³

The other campaigns of the year are equally unimportant. First was one against the mountain land of Adaush on the north-

¹² Ann. 2. 89 ff.—The Kaski occur again in 738, Tiglath-Pileser IV, Ann. 153, where Dad-ilu of the city Kasku pays tribute. He is mentioned between the rulers of Meliddu, the classical Melitene, and Tabal. There can therefore be no doubt as to the correctness of the identification of Kasku with the classical Ciscisus and the modern Kiaken. Ramsay, *Cities and Bishops*, 1. xiv, n., had already identified this last with the Egyptian Keshkesh. A still earlier appearance is found in the Aleppo tablet of the Hammurapi period, Sayce, *PSBA* 29. 91 ff.

¹³ Ann. 3. 35 ff.—Haria is on the eastern border of Qurhi as is shown by the identity of Mt. Idni with the Mt. Matni of Ashur-nasir-apal, Ann. 2. 113, where the *shad-mat* seems to have lost one of its signs by dittography; of Aia with Iaia of Ann. 2. 116; as well as by the survival of Azu in Ise'ir Özü north of the Ashyt Dag. Perhaps it is the Azoni of Plin. 6. 118. The other mountains are Shuira, Shezu, Shelgu, Arzanibiu, Urusu, Aniktu. We may compare the Arzamon River, on which is the town Bibas, Theophyl. 1. 15. 15; 2. 1. 5 ff.; 5. 4; and for Aniktu the Anice of the Ravenna Geographer.

eastern boundary.¹⁴ Then came the subjugation of the lands of Saraush and Ammaush, located near Mount Aruma. Another of these brief mentions is of the conquest of the lands of Isua and Daria, perhaps to the east of the last.¹⁵ If any are to be attributed to our monarch himself, it should be the one into Median territory. The Lower Zab was crossed well up in the mountains, the lands of Murattash and Saradaush which lay within the mountains of Asaniu and Atuma were ravaged, the city of Murattash was taken at sunrise in the third part of a day, and the booty included sixty bronze unguent vessels and thirty talents of the same metal.¹⁶ Finally, we have a campaign against the land of Sugi, a part of Kirhu, which we may also admit with some probability to have been a personal expedition of the monarch. Six thousand troops from here and from Hime, Luhi, Arirgi, Alamun, Tumni, and 'all the wide extending Qurhi,' were defeated in a battle where only foot-soldiers could be brought into action. Sugi was plundered and twenty-five of its gods carried off to grace the temple of Belit and the other gods of Ashur.¹⁷

In the king's own words, the objective of the next campaign is thus described: 'To the lands of the distant kings who were on the shore of the Upper Sea, who had never known subjection,

¹⁴ Billerbeck, *Suleimania*, 15, places Adaush in the mountains south of Khoi, comparing Ashur-nasir-apal, Ann. 1. 55, where tribute of Adaush is received in Kirruri. Streck, *ZA* 14. 162, thinks the geographical order demands a site near Haria, but we have here no geographical order at all.

¹⁵ We may compare the Surra of Ashur-nasir-apal, Ann. 1. 46, and the Dirria of 3. 100.

¹⁶ Saradaush has been well identified by Maspero, *op. cit.* 2. 646, n. 3, with Surtash, a side valley of the Lower Zab.

¹⁷ Ann. 4. 7 ff.—Sugi is the Saqa of Kirhi in Tabl. 4 and the Sakka of Tiglath-Pileser IV. Hime seems to be the Himua of the Nairi list, Ann. 4. 77; Tabl. 1. Luhi is the Halsi-Luha of Ashur-nasir-apal, Ann. 1. 103, according to Streck, *ZA* 13. 89. As Halsi Luha is the key position for this section of the country, the other sites are located approximately. Alamun must be compared with Mt. Elamuni, Ann. 5. 68, in Musri, and the land Ulmunia, Ashur-nasir-apal, Ann. 1. 55, cf. also the Mt. Elama on the road to Nairi, Ann. 4. 53, and 'the Upper Zab which the men of Nairi and Kirhi call Elamunia,' Sargon, Tabl. 323. Only a situation east of the Tigris between Sert and Jezire will satisfy all three passages. *Tumni* is read instead of the usual *Nimni* to identify it with Tumme, generally read as *Nimme*, cf. above.

Ashur my lord sent me and I went. By difficult roads and steep passes which no former king had known in their recesses, by blocked roads and paths which were not open, I traversed sixteen mighty mountains, in good country in my chariots, in difficult with axes of bronze I opened a way. Plane trees, the wood of the mountains, I cut down and I made pontoons for the advance of my troops.' The line of march was up the East Tigris to the south shore of Lake Van¹⁸ and then west through the fertile plain to the north of the mountain rim. Crossing the East Euphrates, Tiglath-Pileser fell upon a confederacy of twenty-three princes, whose territory extended from Tumme to Daiaeni. Pursuit was continued to Lake Van, the country was ravaged, and cattle, for which the country has always been famous, were carried off.¹⁹ The captured chiefs were returned at once to their lands, all but Seni of Daiaeni, apparently the leader, who was

¹⁸ Unless, comparing the location of Tumme in Ashur-nasir-apal, Ann. 1. 46, we assume that he went due east into the mountains and thus to Van.

¹⁹ Ann. 4. 49 ff.—Actual count of the name lists gives twenty-three princes. In 4. 96, this is increased to the round number sixty and scholars have as usual accepted the higher number. For example, Pancritius, *Kriegführung*, 63, thinks the thirty-seven princelets not accounted for in the list of twenty-three were defeated in detail later on. The sixty should be accounted for on the ground of the higher, not the military criticism. An intermediate stage in the development is shown in Tablet 2, where we have thirty, half of the unit round number. The list in 4. 71 ff. is as follows: Tumme, Tunube, Tuali, Qindari, Uzula, Unzamuni, Andiabe, Pilaqinni, Aturgini, Kulibarzini, Shinibirmi, Himua, Paiteri, Uiram, Shururua, Abaeni, Adaeni, Kirini, Albaia, Ugina, Nazabia, Abarsiuni, Daiaeni. It seems to follow geographical order, as the briefer documents all say 'the broad lands of Nairi from Tumme to Daiaeni.' The Melazgerd inscription says the expedition was made to Daiaeni, which would indicate it was set up in the country last reached. Daiaeni also occurs in Shalmaneser III, Mon. 2. 46, and as Daie, without the ending, in Sennacherib, Prism, 4. 3, which show it near Mannai. As Diaush, it is frequently mentioned in the Haldian inscriptions, which show it north of Lake Van and not far from Melazgerd. Tumme was reached by Ashur-nasir-apal before Kurruri, Ann. 1. 46. With Paiteri, Sayce, *RP*² 1. 106, compares the land of Puteriash of the Haldian records, in the Palu region, and Kulibarzine with the Haldian *barsine*, 'chapel.' Shu-ru-ri-a may be read Shu-shup-ri-a, and looks like a sort of dittographic error for Shupria. Abaeni may be the Abai of H. 509, a letter of Sargon's time, with references to Shupria, Kulimmeri, Bulum (Palu), cf. Toffteen *AJSL* 23. 323, and the Abunish of Sayce no. 27. 12; Hommel, *Gesch.* 528. Adaeni seems a form of Adaush.

taken to Ashur, shown the Assyrian might, and sent home a more or less fervent worshiper of the Assyrian gods. Hostages were demanded of all and a regular tribute of horses and cattle was fixed. At the farthest point of advance, at Melazgerd north of Lake Van, Tiglath-Pileser caused to be carved on the rocks an inscription which has survived to our own day.²⁰ That such an expedition could be so successfully carried out was a most impressive proof of the Assyrian strength, a proof not to be again given until the last monarch of the name of Tiglath-Pileser should ascend the throne three and a half centuries later and then perhaps in direct imitation of his older namesake.²¹ To the same period must be attributed the expedition which was made against Milidia, located in Hani-Galbat. The city itself was not taken, for its ruler came out to embrace the conqueror's feet and Tiglath-Pileser was satisfied with a yearly tribute of one homer of a mineral which seems to have been magnesite.²²

So long continued an expedition must have caused a great strain on the Assyrian resources and we are not surprised to find that the fifth year has little of war to report. The booty brought back home was utilized in completing the new temple of Anu and Adad which was dedicated in June of this year.²³ Not until winter was a new campaign undertaken and then it was against the Ahlame, the Aramaeans in the steppe south of Harran, who

Kirini may be the Kuremi north-east of Dohuk, Layard, *Niniveh*, 1. 192, and connected with the Armenian province of Karin. The mountains on the way to Nairi are Elama, Amadana, Elhish, Sherabeli, Tarhuna, Tarkahuli, Kisra, Tarhanabe, Elula, Hashtare, Shahishara, Ubera, Miliadrundi, Shulianzi, Nubanashe, Sheshe.

²⁰ Lehmann, *Verh. Berl. Anthr. Ges.* 1898, p. 574; *Sb. Berl. Akad.* 1900, p. 627.

²¹ Broken Obl. 2 gives campaigns for this year which cannot be connected with any given in the Annals. The 'four thousand' of 1. 2 cannot be connected with the same number of the Kaski, as in Budge-King, *Annals*, 1. 132, n., for that belongs to an earlier expedition. Perhaps the campaign in July against Mush[ki] is the same as ours against Milidia.

²² Cf. Bertholet, *Comptes Rendus*, 1897, 472. Whether we identify Milidia with Melitene-Malatia depends on whether we believe Hani-Galbat extended so far north.

²³ Eponymy of Ashur . . . , Obl. 2. 13 ff.

were clearly the aggressors.²⁴ From Suhi, which seems to have been on the Habur river, and the land of Harki, he raided in one day, or so he says, to Carchemish in Hatte-land. The fugitives fled across the Euphrates, and Tiglath-Pileser pursued them on the same sort of rafts laid upon inflated skins that are used by the natives to-day. Six of their cities at the foot of Mount Beshri were taken and plundered, but, after all, this was a mere raid and had no effect in stopping the constant infiltration. Soon the Aramaean question was to become the most serious the Assyrian government had to face.²⁵

To the same time and place, we must ascribe the well-known hunting exploits of our monarch. In the region of Harran and of the Habur, he slaughtered ten mighty male elephants and took alive four. When we compare this with the one hundred and twenty that Thutmose hunted in this same section,²⁶ we may argue that the number of elephants had decreased in the inter-

²⁴ Tiele, *ZA* 4. 91, cf. Schiffer, *Aramäer*, 122, would correct the ethnic of the 'false prophet' Shemaiah of Jer. 29. 24, 31, from Nehelemite to Ahlemite. The change from Nun to Aleph is not difficult and the Greek Ailameites or Elamites might seem confirmation. But the Enlamite of the original 'Septuagint' of the Jeroboam story shows that we have here an En-Halom, a 'well of oracular dreams,' with which was connected a family of seers, including the Shemaiahs who opposed Solomon and Jeremiah certainly, the one who opposed Nehemiah probably, and to the same Levitical family seem also to have belonged high officials who escorted the ark with David, assisted Jehoshaphat with his legal reforms, and took part in the revivals under Hezekiah and Josiah.

²⁵ Ann. 5. 44 ff.; Obl. 2. 19 ff.—The location of the Suhi is fixed at the lower Khabur by Ashur-nasir-apal, Ann. 2. 100 ff.; 3. 17. The identification with the Shuhi of Job 2. 11 is due to G. Rawlinson, *Smith's Bible Dictionary*, s. v., cf. *Monarchies* 2. 66, n. 12. Curtis, *Chronicles*, 73, does not see how a 'district on the Euphrates near Haran' can be connected with the clearly Central Arabian Shuah of Gen. 25. 2; 1 Chron. 1. 32. But we have an exact parallel in the modern Shammar and 'Anēze who actually occupy this region today, though Jebel Shammar and the city of Aneze are in Central Arabia. The Sohene of the Peutinger Table is probably an error for Sophene and cannot be connected with Suhi. Harki may be an error for Harran. For Ahlame, cf. Schiffer, *Aramäer*, 15 ff., and for Beshri, Olmstead, *AJSL*. 33. 319.

²⁶ Amenemheb Biography, Breasted, *Records*, 2. 233; W. M. Müller, *Egyptological Researches* 1, pl. 35.

val—or that the earlier scribe was the less truthful. Killed, too, were four wild bulls in the desert of Mitani-land and in the city of Araziqui, and it is no more remarkable to find these now extinct monsters than it is to observe Tiglath-Pileser casually remarking that he killed them with a spear of iron, for that metal was just coming into general use. After this, it is an anticlimax to tell of the one hundred and twenty lions killed on foot or the eight hundred from the chariot.²⁷

The last campaigns given us by the annals date from the sixth year. Once more it was necessary to march against the northwest frontier and here we meet a new enemy, the men of the land of Musri, who occupied the land about the east branch of the Tigris.²⁸ The king advanced between the mountains of Elamuni,

²⁷ Ann. 6. 61 ff.; Obl. 4. 6.—Araziqui, 'which is opposite Hatte-land,' is to be identified with the Eragiza of Ptol. 6. 4. 10, in the eparchy of Euphratensia; corrupt in Hierocles, 713; with the Eraciza of the Peutinger Table and the Eraiza of the Ravenna Geographer; Oragizon, a bishopric under Sergiopolis, in the Notitia, Gelzer, *Bys. Zts.* 1. 249; cf. Müller, *Asien*, 284, 291; Sachau, *Reise*, 284, n. 1; Benzinger in Pauly-Wissowa, s. v. Nöldeke and Winckler, *Forsch.* 1. 87, doubt this identification and place it near Samosata, but without reason. As regards this Ahlame campaign, Pancritius, *Kriegführung*, 64, writes, 'Eine solche radikale Plünderung war nur möglich wenn das ganze Gebiet systematisch von einer grossen Zahl von Stiefkolonnen abgesucht wurde'—a true *reductio ad absurdum* of the whole column idea.

²⁸ The first reference to Musri, Adad-nirari, *KTA* 4, merely shows it northwest of Assyria, as it is mentioned after Shubari. Shalmaneser I mentions it after Uruadri (or Urartu) and Arina and before Hani, Taidi, Carchemish, Quti, and Kutmuhi or Qummuh, *KTA* 13. This would indicate its location in the region just west of the East Tigris, not far from Jezire, and the references by Tiglath-Pileser roughly agree. The Musri which Winckler, *Kämpfer*, 31, would find in Adad-nirari I, 1. 22, is merely the well-known phrase *murapish mesri u kuduri*, 'who enlarged boundary and frontier,' and the Musri of the Black Obelisk of Shalmaneser III is certainly Egypt, cf. W. M. Müller, *ZA* 1893, p. 209 ff. Whether our Musri is the same as the one of Sargon, Ann. 415, where Dur-Sharrukin is said to be 'at the foot of Mt. Musri, a mountain above Niniveh,' may be left an open question. This is clearly located to the long line of hills a bare hour north of Khorsabad which form the first outliers of the Jebel Maqlûb or the hills east of Dôhûk which are still inhabited by the Missouri Kurds, cf. Sayce, *EP* 1. 109, n. 7. We have absolutely no proof whatever for a Musri on the border of Syria and Asia Minor such as was assumed by Tiele, *Gesch.* 201, n. 1, and which has played so large a part in Biblical commentary!

Tala, and Harusa, and ravaged the country. But Musri was not destined to be conquered, for it was a center of resistance later in the reign. This seems to have been due to the entrance upon the scene as allies of Musri of a new people, the Qumani, whose name is commemorated in the two sacred Comanas of Asia Minor. Siege was laid to the city of Arini at the foot of Mount Aisa, but this was abandoned when the inhabitants promised hostages and tribute. The Qumani were defeated in a battle on Mount Tala and were pursued as far as Mount Harusa which is over against Musri. One of their strongholds, Hunusa by name, fortified by a triple wall of burnt brick, was taken and utterly destroyed. Salt was sown on the site and a chapel erected in which was placed a bronze thunderbolt and written on it the decree that the city should never be rebuilt. Next was besieged the royal city of Kibshuna. The king of the Qumani was now forced to submit and as punishment was ordered to destroy the great wall with its piers of burnt brick. The three hundred families which had supported the revolt were handed over to the tender mercies of the pro-Assyrian party and the tribute was increased.²⁹

²⁹ Ann. 5. 67 ff.—Pancritius, *Kriegführung*, 67, thinks that Musri was between the Tigris and the Euphrates because the Euphrates was not crossed. But this is shown to be incorrect by the identity of the names of places in Musri with those in Kirhi, proving that it is west of the Bitlis Chai. Mt. Elamuni is the Mt. Alamun in or near Kirhi, Ann. 4. 11, and perhaps, with Streck, *ZA* 13. 63, also the Mt. Elama of Ann. 4. 58. With Mt. Tela we must compare the city Tela of Kirhi, Ashur-nasir-apal, Ann. 1. 60. Mt. Asia equals Mt. Usu of the same passage. There is also here a Misrin in Arzanene, letter of Mar Aba, Chabot, *Int. Congr. Or.* 11. 4. 303, cf. 323. Harusa must be the Shēkh Huṣēn Dagħ. With Kibshuna, Sayce, *PSBA* 23. 98, identifies the Qibsu of Ramses II and the Kibshu of Sen-nacherib, Prism 3. 67. Arini is the Arina of Shalmaneser I, *KTA* 13. 2. 6, between Urartu and Musri; the Aruni of Ashur-nasir-apal, Ann. 1. 47, in Tumme; the Arinna, mentioned with the city of Batilaza, to whose king we have a letter, Thompson, *PSBA* 32. 191 ff.; the Araina before which Thutmose defeated Naharin, Breasted, *Records*, 2. 207, and of the Hittite treaty, cf. Sayce, *PSBA* 23. 98, Luckenbill, *AJSL* 28. 162. Qumani was west of Musri, as Tabl. 2. 1. 13 adds 'Qumani up to Mt. Mehri.' Clearly the Musri campaign of Obl. 3. 4 cannot be the same, for the Obl. gives very brief recitals and there is at the very least a break of fifteen lines between col. 2 and col. 3. Note also how the 'twenty thousand fought with' in Ann. 5. 87, has become the twenty thousand 'added to my land' of the later Tabl. 2.

Here end our annalistic data and our exact chronology as well. Soon after the events just detailed, Tiglath-Pileser made a trip still farther to the west which had in it the elements of the spectacular. Crossing the Euphrates and establishing on its right bank the Assyrian settlement of Mutkinu, he swept across North Syria to the sea, first of Assyrian monarchs to behold the Mediterranean. The citizens of Arvad, secure on their island 'in the midst of the sea,' gave him a ride in their ships and assisted him in killing a whale. The king of Egypt, too, sent him a great crocodile which he proudly exhibited to his people. One desires to know what he sent in return and whether the Pharaoh followed his example in calling this gift a 'tribute.'⁸⁰

Not for long could Tiglath-Pileser enjoy himself on the blue Mediterranean. The Aramaeans were pouring like a flood across the Euphrates, and unless he beat a hurried retreat there was grave danger of his being cut off. The very same year, so it would seem, there was need of an attack on the city of Shasiri and in July, in spite of the intense heat which reigned over the now barren steppe, the Assyrians were again forced to proceed against the Aramaeans. In May of the next year, we find Tiglath-Pileser attacking Pausa at the foot of Mount Kashiari, for the Aramaeans were by this time settled in the extreme north of Mesopotamia under the first ridge of the mountains. The same month, we have an attempt against the 'entrance of Nabula,' a pass not far from Amedi, and in the next we find the Assyrian armies attacking Aramaeans settled in a city on the Tigris. In August, advance was necessary to save the cities in the province of Shinamu, now held by the Assyrian Lishur-šala-Ashur. In September, the Assyrians were fighting the Aramaeans in the city of Murarrir in Shupre-land, that is, in the country directly under the main Armenian range. In November, there is reported an Assyrian raid from the land of Mahiriani to the city of Shuppa which is in the land of Harran.

⁸⁰ Obl. 4. 3 ff.; Scheil Tablet, *ET* 22. 157.—For Mutkinu, cf. Shalmaneser III, Mon. 2. 37. Translation of animal names still uncertain, cf. Hommel, *Gesch.* 532 ff.; Haupt, *OLZ* 1907, p. 263; *AJSL* 23. 253 ff.; Meissner, *Alte Orient*, 13. 2. 16; Budge-King, *Annals*, 1, p. liii; Boscawen, *TSA* 7. 335, thinks the second sculpture at Nahr-el-Kelb belongs to Tiglath-Pileser.

So Harran was already lost to the Aramaeans and with it, no doubt, the whole Mesopotamian country. At any rate, the road to the Mediterranean was effectively closed. In December we find three armies in the field, carrying on three separate campaigns, against Makrisi in Mount Iari, against Dur-Katlimu, .. and against the Sangarite region on the Euphrates.³¹

But the tale of this year of many campaigns is not yet complete. Already in midwinter there had been another attack on Musri which had ended in the deportation of the inhabitants in June. Two months later, the men of Shura in Hani Galbat were likewise deported, and in the same month we have recorded the conquest of an unknown fortress in Kashiari and of Erisha which the Kirhu people had fortified.³² It was inevitable that

³¹ Obl. 3. 1 ff.—Pausa is compared by Schiffer, *Aramäer*, 147, n. 3, with the Penza of the letters, H. 138 f., under the governor of Tushhan, and with Pan[za] of Tukulti-Ninib, Ann. 1. 11 f. Nabula, Adad-nirari, *KTÄ* 5. 10, not far from Kashiari, revolted under Shamshi-Adad, 1. 47. The Tigris city is tibua. Murarrir, badly damaged here, is proved by the Mariru of Nirbu, Ashur-nasir-apal, Ann. 1. 111. Mahirani is the Mehranu of Esarhaddon, Prism A. 2. 25; the Mehri of Tukulti-Ninib I, 1. 11, cf. Peiser, *OLZ* 8. 57; of Tiglath-Pileser I, Tabl. 2. 1. 13; of Ashur-nasir-apal, Ann. 3. 91; the name is preserved in the Meherani castle above Fis, Taylor, *JEGS* 35. 40, cf. also Mehram south of Attäkh and Muhri south of Haini. Makrisi is the Magarisi of Tukulti-Ninib, 2. 30; of Ashur-nasir-apal, Ann. 3. 3, cf. Streck, *ZA* 18. 190; the Makrisu of the Harran Census, Johns, *Doomsday Book*, 2. 2. 13. Its location is thus fixed to the junction of the Jaghjähä and Khabür, not far from Tell Kaukab. This position is still further confirmed by the location of the Magrus of the Peutinger Table and the Ravenna Geographer, 2. 13, cf. Sachau, *ZA* 12. 44, n. 1. For Iauri, conquered by Arik-den-ilu, see Adad-nirari, *KTÄ* 3. 1. 22; still in Kirhu in time of Sargon, H. 173. For Sangarite on west bank of Euphrates, cf. Pitru 'which is on the river Sagura which is on that side of the Euphrates,' Shalmaneser III, Mon. 2. 36. Dur Katlimu in Laqe, Tukulti-Ninib, 2. 15; Ashur-nasir-apal, Ann. 3. 6.

³² Obl. 3. 4 ff.; cf. Schiffer, *Aramäer*, 8 ff.; 158 ff.—Col. 2 of Obl. deals with years 4 and 5. Then comes a break of at least 19 lines. In this break were the events of year 6 at least. The first campaign of col. 3 must be at least in year 7 and the great year of campaigns, in the eponymy of Ashur-ra'im-nisheshu, would be year 8 or later.—The city taken in the Musri raid was Tur...ta. (Schiffer, *Aramäer*, 8, prefers 'Tur... in the land of Musri.') Budge-King make one sign to be wanting before Shura, but the completeness of the reading is proved by the Shura of Hani-Galbat which Ashur-nasir-apal, Kurkh, 2. 53, conquered on his return

so strenuous a year should be followed by one of exhaustion, and indeed the Assyrians did not take the field until November and then only to chastise once more the Aramaeans. But it was a losing fight, as the official records themselves show, and to this Aramaean invasion, more than to any other one cause, must we ascribe the downfall of this first Assyrian empire.

Not alone in the steppe were there tribal movements which marked danger to the Assyrian power. On the northwest frontier, there were wars of the same sort with Lulume, with Kirhu, with the city of Gulguli in the region of Mount Hani, and to the same period belong other wars with Matqia, Andaria, and Adaush, for of these campaigns we learn from a tablet which must be placed not far from the tenth year.⁸⁸

from Damdamsa. In the Kashiari campaign, the scribe took *halša* as a proper name and in this he is followed by Streck, *ZA* 18. 189, who compares Halši-Luha, but in both cases we have simply the word for 'fort.'

⁸⁸ Tablet 4.—Andaria may be the Anzaria of Sargon, Ann. 87, and the Andiritum of the Ravenna Geographer, 2. 9, with Streck, *ZA* 18. 184; Pauly-Wissowa, s. v. It is assumed in this study that what are usually differentiated as Qurte and Kirhi are identical. No objection can be found in the difference of the initial letters as the Assyrian was notoriously weak in distinguishing *q* and *k* and he also had the usual Semitic indifference to short vowels. The lengthening of the first by an added *-e* or *-i* proves nothing, as this is often added, even when the *i* is clearly the sign of the genitive. Identity is concealed from the non-Assyriologist by the fact that editors have read the first *Qur-ṭe* and the second *Kir-hi*, though the second sign is the same in both and the common value is *hi*. The form *Qurhe* is found in the records of Tukulti-Ninib and Tiglath-Pileser, *Kirhi* in the later inscriptions. The exception proves the rule. In the Annals of Tiglath-Pileser, 4. 8 ff., we read 'I marched against the land of Sugi which is in the land of Kirhi. . . . I fought with the lands of Hime, etc. . . . and all the extensive Qurhi.' The cities of the tablet clearly belong to Kirhi. Matqiu is the Mitqia of Kirhi, Ashur-nasir-apal, Ann. 1. 60, cf. Streck *ZA* 18. 183, and the Motki west of Bitlis, Belck, *ZDMG* 51. 561; Saqa is the Sugi of Kirhu of our own Annals, 4. 8; Saqama is the same word with the common ending *ma*, cf. especially the numerous cases of Ashur-bani-apal, Rassam Cyl. 5. 43 ff.; Nisht[un] is in Ashur-nasir-apal, Ann. 1. 62; Shuria is the Shura of Obl. 3. 15 and of Ashur-nasir-apal, Mon. 2. 8; Na[la] is the Nala at whose foot was Kirhi, Tiglath-Pileser IV, 2. 41; Hirdi of Kir[hi] may be the . . .irdi of Qu[rhi] with which Tabl. 4 begins. Other cities mentioned here are Sudrun, Arruhundu, Inishti, Lua, Hirshtu. That these belong to Kirhi was seen by Winckler, *OLZ* 1. 108. Rawlinson, *Mon.* 2. 84, had already compared the modern Kurkh, the site of the later provincial capital of Tushhan.

Already in the third year of his reign, Tiglath-Pileser suffered a severe loss, of prestige even more than of territory, when the Babylonian Marduk-nadin-ahe fell upon an Assyrian city by the name of Ekallate or the 'Palaces,' and carried away the gods Adad and Shula (1107 B. C.).³⁴ Yet in spite of this loss, we find Tiglath-Pileser in the very next year giving himself the title 'King of the Four World Regions,' which should mean that he held at least a small part of North Babylonia. Whatever his possessions—in the fifth year he can boast only the Lower Zab for his boundary—it is still his boundary in the tenth, and when, somewhat later, he begins his invasion of Babylonia, it is again at the crossing of the Lower Zab that he makes his first conquests.³⁵

Marduk-nadin-ahe, then, had sufficient time to consolidate his possessions in the debatable land. We have the hint of some sort of internal organization when we find him granting to his faithful servant Adad-zer-igisha a plot of land in return for the aid which he had given in the first battle.³⁶ Yet when Tiglath-Pileser turned from the bootless wars with the Aramaeans to seek an easier and a more profitable victory, the Babylonians were not ready. In the first year's campaign, we hear of a skirmish between the chariotry of the contending parties above the city of the Lower Zaban opposite the city of Arzuhina.³⁷ Victory declared for the Assyrians and in the following year their king anticipated the terrible summer heat by leaving Ashur in February and marched down the west bank of the Tigris. No resistance was met until the army arrived at Marriti on the border of Akkad, when a battle was fought, the cities of the Dur Kurigalzu region³⁸ were captured, and their governor Kadash-man-Buriash made prisoner. The advance continued southward, taking over Dur-Kurigalzu itself, the Sippars of the god

³⁴ For the year 3, cf. Obl. 1. 16; Sennacherib, Bavian 48 ff., dates the event 418 years before the taking of Babylon, which gives 1107 B. C. In the list 2 R. 60. 10, Ekallati comes immediately after Susa.

³⁵ Tabl. 1; Ann. 6. 40; Tabl. 5; Synchr. Hist. 2. 31.

³⁶ 3 R. 43.

³⁷ Arzuhina, later a most important provincial capital, must be placed at the huge Gök Tepe south of Altyn Köprü, on the basis of the present passage.

³⁸ Named indishula and sande.

Shamash and the goddess Annunitum, Babylon, and Upe. Here was stayed the advance but in the meantime another army had been ravaging the region which extended from the city of Akarsallu to Lupdi, and the Suhi land as far to the northwest as Rapihi on the Euphrates was brought under Assyrian control. Such conquests need no interpretation. All the Babylonian possessions north of the alluvium and practically all the cities of North Babylonia had felt the hand of the invader. Babylon itself might hope soon to be freed, but its imperial position was gone forever. It is not a far conjecture that this defeat resulted also in the deposition of Marduk-nadin-ahe and in the accession of Marduk-shapik-zer-mati.³⁹

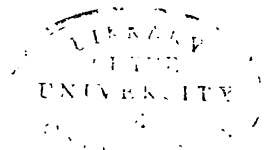
Rarely do the Assyrian kings allow us any insight into their internal affairs, and Tiglath-Pileser is no exception. Of his buildings alone do we hear, but we can learn something from even this. On his own admission, the decline in Assyrian power under his fathers had brought about decay and desertion. There was much work needed to restore palaces and many of the cities were no longer protected from the nomad enemy by their ruined town walls. The first building taken in hand was the 'Palace of the King of the Four World Regions' which was completed in the fourth year and the great temple of Anu and Adad, whose description fills so great a space in the Annals, followed soon after. The treasure house of Adad was rebuilt, and so were the temples of Amurru, of the elder Bel, and of Ishtar of Assyria.⁴⁰ Nor was Tiglath-Pileser without due care for the welfare of his country, if we are to believe his own words. The water-wheels in all Assyria were repaired, and there was a resultant increase in taxes paid in kind. The captured horses, cattle, and asses were collected together, and the deer, stags, ibexes and wild goats, which he had taken in the chase, were

³⁹ The account here given is based on a combination of Synchr. Hist. 2. 30 ff. and Obl. 3. 4 ff. We may also see a reference to these events in the chronicle given by King, *Chron.* 2. 57 ff., 'heavy [booty] he captured,' cf. further Olmstead, *Amer. Jour. Theology*, 20. 280 ff. The kudurru 3 R. 43, mentioning the Babylonian victory, is dated in year 10, which is year 3 of Tiglath-Pileser. A war not earlier than year 10 of the Assyrian ruler would bring it to year 17 of Marduk-nadin-ahe. His year 13 is the last known.

⁴⁰ Ann. 6. 94 ff.; Obl. 2. 13; Tabl. 4.

reared for sacrifices. Cedars and other trees, together with all sorts of garden truck, were carried away and planted in the gardens of Assyria. The picture is idyllic.

In summing up his reign, Tiglath-Pileser boasts: 'I have made good the condition of my people; in peaceful habitations have I made them to dwell.' It is the irony of fate that to us Tiglath-Pileser is known almost exclusively by his conquests, while the later history was to show that war and decline were the destined lot of his people.



ON THE NATURALISTIC BACKGROUND OF THE
'FROG-HYMN,' RIG-VEDA 7. 103

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The so-called 'frog-hymn,' RV. 7. 103, has been frequently and variously discussed, but since Professor Bloomfield's article in *JAOS* 17. 173 ff. there has been no reason to doubt that it is a serious, practical, sacerdotal rain-charm.¹ It may be possible, however, to add a point or two by way of corroboration of Bloomfield's view, and by way of exegesis of the hymn itself.

The relationship between the frogs of the hymn and the frogs of nature has been rather vaguely assumed, but nowhere sufficiently insisted upon. For example, altho it is of course taken for granted, no Vedist, so far as I am aware, has made even the definite statement that in India the frogs actually do croak at the beginning of the rainy season. But there is somewhat more of a zoogeographical background to the hymn, and incidentally more evidence for the rain-charm theory, than appears in Macdonell's statement (*History of Sanskrit Literature*, p. 121) that 'the awakening of the frogs at the beginning of the rainy season is here described with a graphic power which will doubt-

¹ The chief argument against this view and in behalf of the once widely held, but now obsolete interpretation of the hymn as a satire on the Brahmins has been based upon the conception that the frog is a grotesque and even repulsive animal. But to many people and peoples he is very far from being either. The respectful comparison of Brahmins with frogs is no more violent than the assignment by the Greeks of the little horned owl of southern Europe to Pallas Athena as an emblem of her wisdom. Notice, e. g., *Brehms Tierleben*, 4. 283: '[Flower] erzählt, dass während der Regenzeit, als jeden Abend Schwärme von Insekten, vom Lichte angezogen, ins Haus kamen und zur Essenszeit sehr lästig wurden, ein oder zwei solcher Frösche [Indian bullfrogs] auf den Esstisch gesetzt wurden. Sie schienen zu verstehen, was von ihnen verlangt wurde, denn anstatt wegzuspringen oder sich von den Gästen oder Dienern beunruhigen zu lassen, fingen und verzehrten sie die fliegenden Insekten nacheinander, wenn diese auf den Tisch landeten.' See also Waddell, 'Frog-worship' (in Nepal), *Indian Antiquary*, 22. 293 ff.

less be appreciated best by those who have lived in India'; or than appears in the key-note of Bloomfield's article (p. 178): 'The frog in his character of water-animal par excellence quenches fire, produces water where previously there was none, is the proper repository for fever, and finally is associated with the annual appearance of rain in the rainy season.'

It is an almost universal superstition, if not a fact, that the croaking of frogs is a sign of rain. It is well established that the tree-frog, 'the prophet of the summer showers,' is apt to croak when the barometer is low and rain is impending. It is quite possible that the more aquatic species do likewise. An army captain tells of their suddenly appearing at the first sign of rain and croaking by the thousands on the sandy drilling grounds of a fort in Arizona. This frequently occurs after months of drouth and of silence on the part of the frogs. If the Vedic Indians observed that the coming of the rains was preceded by the croaking of frogs, or even if the croaking and the rain were simultaneous, it would have been natural, yea inevitable, for them to conclude that the frogs were responsible for the breaking of the rains. There is, in fact, more than a bit of native evidence that the Hindus viewed the frogs as 'rain-callers.'

In America, as in Europe and temperate latitudes in general, frogs hibernate in winter. In India, as in other tropical countries, they estivate during the dry season, i. e. they bury themselves deep in the sand or soil and silently await the coming of the rains. They emerge by the thousands from their places of estivation at the beginning of the rainy season; they breed when they thus emerge in the tropical spring from their retreats; they croak chiefly during the breeding period, the croak being the sexual cry of the male. When a large number of individuals join in the performance, as is usually the case, the concert at the beginning of the rains is simply deafening and is audible miles away.² Thus, in a very real sense, the croaking of the frogs

² Cf. in general *Brehms Tierleben*, 4th ed., edited by Otto zur Strassen, Leipzig and Wien, 1911-1915, vol. 4: *Die Lurche und Kriechtiere* von Alfred Brehm, neubearbeitet von Franz Werner, 1912; *Cambridge Natural History*, vol. 8: *Amphibia and Reptiles* by H. Gadow; Mary C. Dickerson, *The Frog Book*, New York, 1913; E. G. Boulenger, *Reptiles and Batrachians*, New

ushers in the Indian rainy season, and by an easy *causa causata* is considered responsible for it.

The texts make it plain that the croaking of the frogs is preceded by a period of silence. In the *Harivamśa*, *Viṣṇuparvan* 95. 23 = 8803, the frogs croak after having slept eight months. In RV. 7. 103. 1, 8, and 9 the frogs raise their voices after having lain silent for twelve months. The silence of the frogs is, of course, that of estivation. The longer period would count from the first appearance of the frogs in one year to their first appearance in the next year, or from the beginning of one rainy season to the beginning of the following one. The shorter period would reckon from the end of the rains one year to their beginning in the next year. In the Panjab the rainy season lasts four months—June, July, August, and September.

In many cases when the texts especially designate the sex of the frog, it is the female (*mandūkī*, *mandūkkikā*) that croaks (cf. AV. 4. 15. 14, and Bloomfield, p. 179 and note). Biologically, however, the female frog has little or no voice and only the male croaks. But as frogs have no external organs of copulation, the Hindus could not have distinguished male and female. Even a frog itself cannot determine by sight the sex of another. At the breeding period a male frog approaches another frog and embraces it; if the latter croaks it is recognized as a male and is released. Doubtless this breeding is described in our hymn: '[Stanza 3] When, the rainy season having arrived, it has rained upon them longing and thirsting, then crying *akhhkhala*, as a son to his father one approaches the other (who is) croaking.³ [Stanza 4] One of them seizes the other when they have both delighted in the pouring forth of the waters⁴; when the

York, 1914; *Encyclopaedia Britannica*, s. v. *Batrachia*, *Hibernation*. See also G. A. Boulenger, *The Tailless Batrachians of Europe* (in publications of the Ray Society), 1897-8, vol. 1, especially p. 62 ff.; E. Massat, 'Les Cris des Batraciens,' *Cosmos*, Paris, 1911, vol. 64; J. Gal, 'Chant de la Rainette,' *Bull. Soc. Étud. Sc. Nat.*, Nîmes, vol. 35.

³ The seer should not be blamed for failing to observe that it is only the approaching (male) frog that is croaking; it is admittedly difficult to detect a frog in the act of croaking.

⁴ The sexual 'seizing' lasts often for hours and even days and would certainly be noticed frequently by the rishi-naturalist.

frog sprinkled by the rain hopped about,⁵ the speckled joins voice with the green.' Here we have together and in proper sequence the beginning of the rains, the croaking, and the breeding—in the hymn as in nature.

The emphatic distinction in stanzas 4, 6, and 10 between the speckled and the green frogs attracts attention. This classification of frogs into two kinds, the speckled and the green, apparently goes by parallel straight thru the hymn. The one approaches the other, *anyó anyám* (stanza 3); the one seizes the other, *anyó anyám* (stanza 4); both kinds rejoice in the waters (4); the speckled joins voice with the green (4); the one repeats the cry of the other, *anyó anyáya* (5)^{5a}; the one bellows like an ox, the other bleats like a goat (6 and 10); the one is speckled, the other is green (6 and 10). In stanzas 4 and 10 dual verbs are used—with subjects in the sense of 'both kinds, the speckled and the green.' It is more than possible that the colorings were considered an indication of sex. If the parallel holds, and it seems to hold perfectly, the male frog, speckled and deep-voiced, approached, seized, and bred with the female, who was green and had less voice.⁶

It is quite certain, however, that in the hymn different genera are indicated, either consciously or unconsciously—and in the case of the speckled frog, possibly a definite species. According to Brehm, the frogs and toads of India are *Ranidae* (true frogs and flying frogs), *Engystomatidae* (small-mouthed frogs), and *Pelobatidae* (toad frogs). To the second of these families belongs the numerous, wide-spread, large, brown-yellow-black-red-gray speckled Indian Bullfrog, *Callula pulchra* Gray, whose voice resembles the bellow of an ox.⁷ Twice in the hymn we

⁵ *kánishkan*: frequentative rather than intensive. Bloomfield, 'did skip.'

^{5a} Despite Wackernagel, *Altindische Grammatik*, 2. 1. 322 (cf. also Brugmann, *Grundriss*, 2. 1. 95), I am unable to see any indication, either in forms, accent, syntax, or context, of reciprocal action in stanzas 3, 4, or 5.

⁶ That there was, at least later, a consciousness of the sex-element in the hymn is suggested by Harivamśa, Viṣṇuparvan 95. 23 = 8803, 'a passage which is clearly modelled after sts. 7 ff. of our hymn . . . : "The frog having lain asleep eight months croaks with his wives."' (Bloomfield, p. 178).

⁷ It inhabits the Indian mainland from Ceylon to China, and is known and distinguished everywhere for its variegated coloring and for its remarkably

find, if not the direct statement, at least the clear indication by parallel that the speckled frog has a deep voice and bellows like an ox, and that the green frog bleats like a goat, i. e. has less voice: 'One bellows like an ox (*gómāyur éko*), the other bleats like a goat; one of them is speckled, the other is green' (stanza 6); 'The one that bellows like an ox, the one that bleats like a goat; the speckled one and the green one have both given us wealth' (stanza 10). In *Kāūsika* 93. 4 and 96. 1 and 3 *gómāyu* above is used outright as a name for a particular kind of frog—quite possibly the Indian bullfrog. There are various species in India of green (or, for that matter, yellow or greenish-yellow) frogs that 'bleat like a goat,' that have less voice: 'bearing a common name, but of different color-and-shape, they modulate their voice in various ways when they speak' (stanza 6).

That the hymn is on the whole hieratic cannot be denied, and one must agree, rather regretfully, to be sure, with Bloomfield (p. 176) in rejecting the picture of a 'mildly frenzied rhapsodist among the people, or, perhaps, . . . some Rāja's poet laureate "given to infinite tobacco" [to keep away the mosquitoes!], as he walks along the jungle in the cool of the evening, at the opening of the rainy season, eager to bag some good subject for the delectation of the court of his patron.' But even if the

loud voice. For a full description of its habitat, markings, habits, and voice see Brehm, 1. c., p. 281 ff. Notice p. 283: 'Später macht Flower auf Grund seiner Beobachtungen in Siam noch weitere Mitteilungen über den Indischen Ochsenfrosch . . . Während der Regenzeit in Bangkok ist fast jeden Abend nach einem regnerischen Tage die Luft voll von dem dröhnenden Gequake dieser Frösche, das wie "eung-ahng eungh-angh" klingt und, bald fallend, bald ansteigend, die ganze Nacht fortgesetzt wird. [Of. stanza 7 of the hymn: 'Like Brahmins at the all-night soma-sacrifice, chanting around the full soma-bowl (pool).'] An manchen Strassen, die beiderseits von Wasser begrenzt sind, und wo Callula häufig ist, kann man buchstäblich seine eigene Stimme nicht hören.'

The voice of the Indian bullfrog is elsewhere described by Flower as 'wan-auhhhhk.' With *akhkhala* in stanza 3, above, Bloomfield (p. 174, note) compares *βεκεκεκεκξ κωξ κωξ*. But according to G. A. Boulenger (above, p. 63) the cry of Aristophanes' chorus of frogs is that of *Rana esculenta*, which is not a speckled, but a green frog. I grant, however, that little weight can be put on efforts accurately to describe the voice of frogs. Probably no two modern observers would agree entirely upon a phonetic transcription of the voice of any species.

ecclesiastical 'Stimmungsbrechung' at the end was, as seems likely, the production of the author of the remainder of the hymn, I submit, nevertheless, that the rishi was not so absorbed in the prospects of bakhshish that he could not afford the time to observe with patient care the frogs at their play and to describe with genuine interest and enthusiasm what he saw. Notice, in addition to what has already been said, stanza 5 of our hymn: 'When one of them repeats the cry of the other, as a student (that) of the teacher, then all that with them is like a well-executed^a lesson, when with a loud voice they croak upon the water.' One croaks in one direction, another croaks in another direction; then a whole chorus arises as if a great group of students were repeating the words of the teacher. Any one who has observed frogs will recognize this as an accurate and vivid description.

Finally, to Bloomfield's evidence of the use of the frog in rain-charms may be added a point from the report of ritual uses in Lanman's edition of Whitney's translation of the Atharva-Veda. AV. 3. 13 is addressed directly to the waters and is prescribed in whole or in part for four different purposes: to be used with a frog in a ceremony for directing water into a certain course (Kāuśika 40. 1 ff.); to accompany the conducting, in the *agnicayana*, of water, reeds, and a frog over the altar-site (Vāitāna 29. 13); to be used by one desiring rain (Commentary); to be employed in a rite for good fortune (Kāuśika 41. 14). Here we have in the native employment of one hymn all the elements of frog-ritualism except its use as a cure for fever.

^a Cf. Bloomfield, p. 174 and note.

THE VIGESIMAL AND DECIMAL SYSTEMS IN THE AINU NUMERALS

WITH SOME REMARKS ON AINU PHONOLOGY

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The vigesimal character of the numeral system of the Ainu was first recognized clearly by the great philologist A. F. Pott,¹ although he had at his disposal only the scanty and deficient vocabularies of A. J. v. Krusenstern² and Klaproth (*Asia polyglotta*). On the basis of a Japanese collection of Ainu words, the *Moshiogusa*, A. Pfizmaier³ arrived at the same conclusion a few years later. J. Batchelor,⁴ the patient and meritorious investigator of the Yezo Ainu, has refrained from giving an analysis of the numerals, being content to observe that 'twenty, more literally a "score," is the highest unit ever present to the Ainu mind when counting. Thus, forty is "two score," sixty is "three score," eighty is "four score," and a hundred is "five score." ' An interesting analysis of the numerals from the pen of B. H. Chamberlain, however, is inserted in his Grammar.

The cardinal numerals from one to five are *šine*, *tu*, *re*, *ine*, and *ašikne*; or properly, *-ne* being a suffix, as will presently be recognized,⁵ they are *ši*, *tu*, *re*, *i*, *ašik*. The word for the number 5, *ašik*, is doubtless associated with the nouns, Yezo *aške*, from **ašike* 'hand', *aškororo* 'a handful', *ašikipet*, Saghalin *askipit*

¹ *Die quinare und vigesimale Zählmethode bei Völkern aller Welttheile*, p. 85 (Halle, 1847).

² *Wörterausgaben aus den Sprachen einiger Völker des östlichen Asiens* (St. Petersburg, 1813).

³ 'Untersuchungen über den Bau der Aino-Sprache,' p. 26 (*Sb. Wiener Akad.* 1851). In 1883 Pfizmaier adopted the only correct spelling 'Ainu' (see his 'Untersuchungen über Ainu-Gegenstände,' p. 1).

⁴ *A Grammar of the Ainu Language*, p. 47 ff. (Yokohama, 1903); reprinted also at the end of his *Ainu-English-Japanese Dictionary* (2d ed., Tokyo, 1905).

⁵ The same suffix is employed also in adjectives: *kuras-ne* 'black', *on-ne* 'old', *tan-ne* 'long', *tak-ne* 'short'.

'finger'.⁶ The designation for 'foot' (*kema*) is not met with in the numeral system.

The numbers six to nine are formed by subtraction from 10, *wan*,⁷ as follows:—

iwān, *i-wān* (*i* 4, *wān* 10), $10 - 4 = 6$.

arawān, *a-ra-wān*⁸ (*a* prefix, *ra* = *re* 3, *wān* 10), $10 - 3 = 7$.

tupesān, *tu-pe-sān* (*tu* 2, *pe* 'thing,' *sān* 10), $10 - 2 = 8$.

šinepesān, *ši-ne-pe-sān* (*ši* 1, *ne* suffix, *pe* 'thing,' *sān* 10), $10 - 1 = 9$.⁹

⁶ This seems to me the only rational explanation in opposition to B. H. Chamberlain (*The Language, Mythology, . . . of Japan Viewed in the Light of Ainu Studies*, p. 9), who interprets *ašik-ne* as 'possibly "new four" (*aširi ine*).' This is artificial and runs counter to phonetic requirements. Pott (*l.c.*) had already remarked that the relationship of the numeral 5 to 4 in the sense of 'a beyond it' is merely deceptive.

⁷ Batchelor writes *wa(n)*. On Saghalin I heard only *wān* or in composition with *pe* 'thing': *wam-pe*. I. Radliński ('Slownik narzecza Ainów,' p. 67, Kraków, 1891) gives for the Kuril dialect *wam-pi-y* or *wam-pi-kasma*. The materials of this Polish author have not been utilized by Batchelor.

⁸ On Saghalin only *a-ru-wān*. Batchelor (*Dictionary*, p. 44) gives for Yezo both *arawān* and *aruwān* on equal footing; the *Moshiogusa*, according to Pfizmaier, only *aruwān*. Kuril Ainu (Radliński) *arwa* (from **aruwa*).

⁹ Chamberlain (*l.c.*) analyzes *tupesān* as 'two (*tu*) things (*pe*) come down (*sān*) [from ten],' and similarly *šinepesān*. True it is, Batchelor has on record a word *sān* with the meaning 'to descend, to flow along as a river, to go down'; but there is nothing to indicate that it conveys the notion of subtraction. I prefer to assume that *sān* in the numbers 8 and 9 appears in lieu of *wān*, and signifies 'ten.' The question, however, is not of a phonetic change, an alternation of *s* and *w* being otherwise unknown in Ainu, but we are bound to suppose that *sān* is an independent stem or base with the meaning 'ten' on a par with *wān*. Also the languages of primitive tribes are no longer extant in their original forms, and especially in the numerals far-going modifications and re-adjustments of various systems have doubtless taken place. In Friedrich Müller's *Grundriss der Sprachwissenschaft* (2. 1. 145), where a rather poor and in many respects incorrect sketch of Ainu is given, we read literally as follows: '8 *tu-be-šan* (2 + 5); 9 *šne-be-šan* (1 + 8).' The element *sān* cannot be compared with the numeral 5 *ašik*, *ašik-ne*, for, as is evidenced by the word for 'finger,' from which the numeral is derived, the final *k* is part of the stem. Moreover, if we are not mistaken, even in Müller's time (1882) 2 + 5 was 7, and not 8, as he makes out. To be consistent, Müller should have explained *šne-be-šan* 9 as 1 + 5, but it will not do to conceive the element *be-šan* as 8. Pott had already recognized the true condition of affairs, saying that the numbers from 6 to 9 raise the suspicion of having originated retrospectively through deduction from 10, and that there is no doubt of this in 8 and 9. Even Ph. von Siebold (*Nippon*, new ed., 2. 255) gave a correct explanation of the Ainu number 8. The first edition of his work, incomplete, appeared in seven parts in Leiden, 1832-52.

The numbers eleven to nineteen are formed on the scheme $1 + 10$, $2 + 10$, *šine ikašima wan*; on Saghalin simply *šinä ikašima* = $1 +$. The unit of all higher counting is represented by the figure 20: Yezo *hot-ne* (the same suffix *-ne* as in the numbers 1, 4, 5, and possibly the mobile *-n* of *wan* 10), Kuril *ot*, Saghalin *ox, otsi*. The number 30 is expressed by $10 - 2 \times 20^{10}$ (*wan-e-tu-hot-ne*), 31 by $1 + (10 - 2 \times 20)$, $40 = 2 \times 20$, $50 = 10 - 3 \times 20$, $60 = 3 \times 20$, $70 = 10 - 4 \times 20$, $80 = 4 \times 20$, $90 = 10 - 5 \times 20$, $100 = 5 \times 20$ (*ašikne hotne*, Kuril *askinot*), $110 = 10 - 6 \times 20$, $120 = 6 \times 20$, $200 = 10 \times 20$, $1000 = 5 \times 10 \times 20$, etc.

In its origin, this numeral system accordingly was quaternary, the numbers one to four being indivisible and undefinable roots. The number five was derived from the designation of the hand. It plays no role in the formation of higher number-conceptions. The words for ten and twenty are simple and unanalyzable stems. From eleven to nineteen the numbers follow the decimal principle, while from twenty onward a vigesimal system is carried through with clear consistency. Similar conditions are found in American languages.¹¹

This method of reckoning is remarkable for its complexity, and bespeaks no small degree of mental effort for such simple folk as the Ainu. We are quite ready to believe Batchelor that in actual practice the higher numbers are rarely, if ever, met with, nor is it surprising to learn from the same authority that at the present time the simpler Japanese method (that is, a purely decimal system) is rapidly supplanting the cumbrous native system. Such transformations are always interesting to note and worth keeping in mind, especially in view of the conventional opinion that the life of primitives should be unchangeable.

It has not yet become known, however, that the Ainu of Saghalin, at least part of them, have advanced toward a purely decimal system of counting, but, while the impetus to this progressive movement was doubtless received from an outside quar-

¹⁰ To be understood, of course, as $(2 \times 20) - 10$.

¹¹ See chiefly the interesting study by R. B. Dixon and A. L. Kroeber, 'Numeral Systems of the Languages of California,' *American Anthropologist*, 9 (1907), p. 663-690; and J. A. Mason, 'Ethnology of the Salinan Indians,' *Univ. of Cal. Publ. in Am. Arch.* 10 (1912), p. 134-136.

ter, they have recruited elements of their own language to this end. Among the Ainu on the southeast coast of Saghalin Island, I recorded the numerals in January 1899 as follows:—

1 <i>ši-nä'</i>	10 <i>wam-pe</i>	100 <i>ši-nä-tānku</i>
2 <i>tū</i>	20 <i>tū-kūnkūtu</i>	200 <i>tū-tānku</i>
	21 <i>tū-kūnkūtu ši-nä ikašima</i>	
3 <i>rē</i>	30 <i>rē-kūnkūtu</i>	300 <i>rē-tānku</i>
4 <i>i-ne</i>	40 <i>i-ne-kūnkūtu</i>	400 <i>i-ne-tānku</i>
5 <i>ašik, ašie-ne</i>	50 <i>ašie-ne-kūnkūtu</i>	500 <i>ašie-ne-tānku</i>
6 <i>i-wan, i-wam-pe</i>	60 <i>i-wan-kūnkūtu</i>	600 <i>i-wan-tānku</i>
7 <i>a-ru-wam-pe</i>	70 <i>a-ru-wan-kūnkūtu</i>	700 <i>a-ru-wan-tānku</i>
8 <i>tu-pe-sam-pe</i>	80 <i>tu-pe-san-kūnkūtu</i>	800 <i>tu-pe-san-tānku</i>
9 <i>ši-nä-pe-sam-pe</i>	90 <i>ši-nä-pe-san-kūnkūtu</i>	900 <i>ši-nä-pe-san-tānku</i>
		1000 <i>wan-tānku</i>

It is clear that this system, based on the multiplication of 10, is logically decimal pure and simple. How far it is propagated among the Ainu of Saghalin I am unprepared to say, as my sojourn among them was limited to a few days, but it was given me by my Ainu informant as the mode of counting then generally in vogue. There is no doubt that also the ancient vigesimal system still holds sway on Saghalin, as stated by M. M. Dobrotvorski and B. Pilsulski. Dobrotvorski was stationed on Saghalin as Russian military surgeon from 1867-71, and his *Ainu-Russian Dictionary*¹² was published on his death by one of his brothers in Kazan, 1875. In the appendix of this work (p. 15), which contains a criticism of Pfizmaier's treatise cited above, the author speaks exclusively of the vigesimal character of the numerals. In the body of the dictionary, however (p. 153), he remarks that *kunkutu* (thus spelled instead of *kūnkūtu*) is a counting-word for sables with the meaning 'ten sables,' also *sne* (= *ši-nä*) *kunkutu* being used in this sense; *tu-kunkutu*, 'twenty sables', etc. It is quite possible and, as will be noted, plausible that this method was originally inaugurated in connection with the calculation of sable-skins; but it is certain that *kūnkūtu* does not mean 'sable,' either in Ainu or in any language of the peoples surrounding them. The sable is called by the Ainu both on Yezo and Saghalin only *hoinu* or *hoino*. Under

¹² By the way, a rather mediocre and from a phonetic viewpoint unsatisfactory work.

tañku Dobrotvorski (p. 317) notes that this signifies 'a hundred snares in catching sables.' *Tañku*, however, means simply 'hundred.'¹³

The word *tañku* for hundred occurs in an Ainu story recorded by B. Piłsudski¹⁴ and describing an incident of Tungus life. It is avowedly the reproduction of an Orok tradition. With reference to *tañku* Piłsudski remarks that this is not a word of the Ainu, who denotes hundred by *ašišne hot* 'five score'; 'it is taken,' he continues, 'from the Olčhy [read Olča] tribes, from whom they learned to set snares for pine-martens, and counted the number of snares by hundreds in that language.' Yet *tañku* is not peculiar to the Olča, but the common word for hundred in Manchu (*tañgô*), in the ancient language of the Jučen (*tañgu*), and among all Tungusian and Amur tribes. The Ainu were for two centuries under the rule of the Manchu, and my impression in the matter has always been that they adopted this numeral from their Manchu rulers. This conclusion is amply confirmed by the fact that the annual tribute to be paid to them by the Ainu, as was the case with all the tribes of the Amur region, consisted in sable-skins and other peltry. The Chinese classified all these peoples under the category 'those with an annual tribute of sable-skins' (*sui tsin tiao p'ï*). The Ainu ranked in this class,

¹³ Dobrotvorski (p. 228) notes also a word *opispe* with the meaning 'ten snares in the catch of sables,' used in the same manner as *kunikutu*. But *opispe* is very far from having in its origin this narrow significance. Eliminating the element *-pe* 'thing,' we have *opis* which was recorded by Steller in the eighteenth century with the spelling *ûpÿhs* as the numeral 10 among the Ainu at the southern end of Kamchatka (see his vocabulary published by J. Klaproth, *Asia polyglotta*, p. 302, or *Aperçu général des trois royaumes*, p. 254, Paris, 1832). Further, Batchelor has noted on Yezo a word *upis* meaning 'number.' It is therefore probable that *upis*, *opis*, or *opis*, assumed the significance of a high number, and was finally utilized to convey the notion 'ten.' What Dobrotvorski noted is merely a specific case or an applied example. For this reason I am inclined to infer also that the expression *kunikutu* at the outset had no relation to the business of sable-catching, but, whatever its primeval meaning may have been, is a genuine Ainu word denoting the numeral 10. On Yezo there is a similar word for ten, used only in the counting of animals, *atuita*; for example, *tu atuita* 'twenty animals'—sufficient evidence that the Ainu language does not lack expressions for ten.

¹⁴ *Materials for the Study of the Ainu Language and Folklore*, p. 139 (Publication of the Imperial Academy of Sciences, Cracow, 1912).

as stated in chapter 3 of the *Huang ts'ing chi kung t'u*, 'The Tribute-bearing Nations of the Manchu Dynasty,' an official work published under the reign of K'ien-lung in 1773. Here the Ainu are illustrated and described under the name *K'u-ye* (*Hou-ye* of the Jesuits of the eighteenth century), which is a reproduction of Tungus *Kūgi*, the Tungus and Gilyak designation of the Ainu.

As to Manchu-Ainu relations we are well informed also by Japanese authors. One of these, who wrote in 1786, mentions tobacco-pipes provided with inscriptions in Manchu characters and traded to Karafuto (Saghalin), also Chinese stuffs obtained by the Manchu in Peking and shipped thither.¹⁵ Above all, we have an excellent source of information on Saghalin and the Amur region in the account of Mamia Rinsō, translated by Ph. von Siebold.¹⁶ Rinsō traveled in those regions in 1808, and left a vivid description of Manchu administration in Saghalin and the taxes paid by the Ainu in furs. He also saw on the east coast near Taraika a boundary-stake inscribed with Manchu characters. A Manchu document is still preserved by an Ainu chieftain of Naiero.¹⁷

The reminiscence of their former dependence on the Manchu is still preserved even in the Ainu traditions of Yezo, in which are allusions to journeys of the people to the governor of Manchuria to pay their respects. Batchelor,¹⁸ who has recorded such a story, comments on this occasion that the ancient Ainu used to go yearly to Manchuria to render homage to the governor of that country, and on their way used to pass through Saghalin; that they used also to do business with the Manchu particularly when at war with the Japanese; and that possibly the Ainu were subject to Manchuria in very ancient times. This chronological definition is somewhat exaggerated. Saghalin became known to the Manchu only as late as during the reign of the Emperor K'ang-hi (1662-1722).¹⁹ It follows therefrom that the

¹⁵ Klaproth, *Aperçu général des trois royaumes*, p. 190.

¹⁶ *Nippon*, new ed., 2, p. 207-235; see chiefly p. 219-221.

¹⁷ Laufer, *Keleti Szemle*, 1908, p. 5.

¹⁸ *Transactions of the Asiatic Society of Japan*, 18 (1890), p. 42.

¹⁹ See Du Halde, *Description of the Empire of China*, 2. 247, or the original French edition, 4. 15 (this report relates to the year 1709); C. Ritter, *Asien*, 3. 450.

Ainu decimal system cannot be older than about the middle of the eighteenth century, when Manchu sovereignty over them was more firmly established. It hardly requires special mention that the numeral system of the Manchu is strictly decimal.

Pilsudski, in his interesting work previously quoted (p. 1-11), is the first author to offer some remarks on the phonetics of the Ainu language. Batchelor has almost neglected this fundamental part of the language, and his transcription of Ainu is no more than an attempt at adapting the English alphabet to the writing of Ainu. And then it is possible to compare with Hebrew and Indo-European, and even to stamp as Indo-European, a language the sounds of which are not yet accurately ascertained. Pilsudski says that Abbé Rousselot studied the phonology of Ainu with some individuals from Yezo at the Anglo-Japanese Exhibition in London, 1910, and communicates some of his results. I have been waiting for their publication on the part of Rousselot, but have not yet seen it. In 1900, shortly after my return from Siberia, I prepared a small Ainu grammar which for some reason or other was never published. In the interest of the progress of Ainu studies I deem it useful to check off my data and conclusions with those obtained by Pilsudski and to state the points in which we agree and those in which we differ.

One of the most interesting experiences in the study of Ainu phonology was to me the fact that all sonants in the series both of the explosives and spirants are lacking. As I was familiar with this phenomenon in many other languages, I naturally paid especial attention to it in examining the Ainu consonantal system. I was able to hear the guttural, palatal, dental, and labial *k*, *č*, *t*, and *p* only as pure surds, and summarized the result of these observations in my Ainu grammar literally as follows: "To the ear the surds may sometimes sound like sonants, but even in this case no laryngeal intonation takes place. Indeed an Ainu is not able to articulate the sonants of the Russian and Japanese languages, and will invariably transform these into the corresponding surds. Russian *dal'se* "farther," for instance, is pronounced by them *tarše*; Russian *gul'ai* "to walk"²⁰ like

²⁰ In the Pidgin-Russian as spoken by the aboriginal tribes and the Chinese and Koreans of eastern Siberia, the Russian verb is usually employed in the imperative, regardless of the real form required.

kurai; Japanese *baka* "fool" becomes *paka*; *ōgi* "fan," *aunki*; *azuki* "a kind of bean," *antuki*.' Ainu *kumaška* 'ruble' is the reproduction of Russian *bumaška* 'banknote, paper bill.' All close observers are indeed agreed on the one point that the sounds in question, both as initials and finals, are downright surds; this is the opinion, although not expressed by this strict formula, of Dobrotvorski, Batchelor, and also Piłsudski.²¹ Batchelor remarks that 'no sonant letter begins a sentence, but in composition surds are sometimes changed into sonants, *k* turning into *g*, *p* into *b*, *t* into *d*.' This would be a sort of sandhi which occurs in exactly the same manner in Japanese, and which, owing to the long and familiar intercourse of both peoples, may conclusively be attributed to the influence exerted by the Japanese upon the Ainu language. Japanese likewise, as is well known, lacks the sonant explosives, and has developed them but secondarily in composition (the so-called *nigori*). It is thus not impossible, I concluded in 1900, that in a further stage of development Ainu will also develop such secondary sonants. On the southeast coast of Saghalin I had little occasion to note this change; on the contrary I recorded many examples with surds in composition, where a sonant is offered by Batchelor; for instance, *inumbe* 'wooden framework round a fireplace'—Saghalin *inumpä*; *humbe* 'whale'—Saghalin *humpe*; *rai-ge* 'to kill'—Saghalin *rai-ke* (*-ke* is a suffix forming causative verbs; *rai* 'to die').

Piłsudski formulates his observations as follows: 'The explosives are *k*, *t*, *p*; *g*, *d*, *b*. These two groups are not unrelated. In Ainu there is really only one group; if the sounds occur at the beginning of a word, their normal sound is *k*, *t*, *p*. In the middle of a word, the sound wavers between the former, the voiceless group, and the voiced group *g*, *d*, *b*. Strictly speaking, these are not identical with their Indo-European corresponding consonants. They are, I should say, neither *fortes* or *lenes*; they are *between*. And then, which is yet more important, their conditions of combination are to be noticed. For instance, after *m*, these consonants readily acquire a certain sonorousness of tone, which probably does not last during the whole time of their

²¹ F. Müller (l.c. p. 143) has added *g*, *d*, *b* to the consonantal system of the Ainu, for which there was no occasion even at his time; he had accordingly not read Dobrotvorski.

articulation. The outcome of this was that in very many cases I was unable to determine the nature of the consonant, as I heard a sound that could not be identified either with the former group or with the latter. At all events, among the Ainu of Saghalin, the normal and primary group is *k, t, p* (voiceless), possibly less strongly articulated in certain connections. Their corresponding sounds (*g, d, b*) more or less voiced appear only as secondary variations. On the western shore of Saghalin the latter group is more often to be met with than on the eastern shore.'

The last observation accounts for the fact that on the east coast I heard so few *g, d, and b*; I had no occasion to visit the southwestern shore of the island. Although Piłsudski expresses himself somewhat differently, I believe that I am perfectly in accord with him as to the facts in the case, save that I am not yet convinced that the Saghalin dialect possesses genuine sonants. In my estimation, these sonants are also voiceless.²² With respect to the Yezo dialect I do not hazard an opinion, not having had an opportunity of hearing it.

I concur with Piłsudski in the observation that the explosives are capable of palatalization, except that I do not believe with him in the existence of *b'* and *g'*, and have to add *t'* to his *k'* and *p'*. Palatalized *t'* alternates with palatal *č* (see below, p. 204-5).

Piłsudski asserts that the palatal sonant *j* also occurs, but only in very few words after a nasal, as in *unji* 'fire', *tunji* 'interpreter'—cases already cited by Dobrotvorski. The latter example proves little, as it is a loan-word; Batchelor writes it *tunči*, and in my own collectanea I have *tunčinė ainu* 'interpreter': it is Sinico-Japanese *tsūji*, Chinese *t'un(t'ung)-ši*. This word has been carried by the Chinese all over Eastern and Central Asia; it is heard in Tibet as well as in Mongolia and Manchuria (Manchu *tuñse*, Golde *tuñsiko*, Oročon *tuñksa*). It is curious that the first element of the Ainu loan-word agrees with the Manchu form, the second element with Japanese. At any rate this example is not conclusive as to the existence of an original *j* in Ainu. In regard to *unji*, I myself heard only *unči*, and Batchelor gives both *unči* and *unji*, so that this *j* represents

²² Compare Sievers, *Phonetik*, § 348.

č, and is again inspired by an imitation of the Japanese *nigori*. A Japanese initial *j* is transformed by the Ainu into the palatal surd; for instance, *jo* 'lock' becomes *čo*.

As final consonants occur the three explosives, the four nasals *ñ*, *n*, *n'*, and *m*; and *s*, *r*. In regard to the final explosives I made the curious observation on Saghalin that they were about to disappear, that they were dropped altogether by most individuals, while a few in some cases pronounced them with a rather obscure articulation, the preceding vowel being greatly shortened and uttered harshly and abruptly. Thus:—

YEZO	SAGHALIN
<i>yuk</i> 'stag'	<i>yü'</i>
<i>tek</i> 'hand'	<i>tě'</i>
<i>šluk</i> 'bear'	<i>išö'</i>
<i>marek</i> 'spear for salmon'	<i>marě'</i>
<i>upok</i> 'to wrestle'	<i>upö'</i>
<i>čup</i> 'sun, moon'	<i>čü'</i>
<i>ikačop</i> 'quiver'	<i>ikačö'</i>
<i>onnep</i> 'a large seal'	<i>onně'</i>
<i>čep</i> 'fish'	<i>če'</i>
<i>at</i> 'flying squirrel'	<i>a'</i>

Pihsudski states that certain final consonants are not completely articulated and only very faintly heard, but his description of the process is not quite clear. In all probability the history of this event was such that the final explosives were first changed into the spirant *x* (see below, p. 202-3), which is now gradually giving way. We have, for instance, Yezo *etok* 'source, origin, limit', Saghalin *etox* and *eto*; *mat* or *max* 'woman' becomes *ma* in composition: *kaši-ma* 'old woman,' *koš-ma* 'daughter-in-law.'

In the combinations *pk* and *pt*, when occurring as medial sounds, the labial explosive is eliminated in the dialect of Saghalin:—

YEZO	SAGHALIN
<i>ataye-yupke</i> 'expensive'	<i>ataiyuki</i>
<i>aptoran</i> 'it rains'	<i>atoran</i>
<i>irangarapte</i> 'a greeting'	<i>irañkaratä</i>

Medial double *k* of the Yezo dialect corresponds to *sk* on Saghalin: Yezo *ikka* 'to steal,' Saghalin and Kuril *iska*.

Pk and *kk* interchange: Yezo *kupka* and *kukka* 'mattock.'

Of nasals, Ainu possesses at present four—the guttural *ñ*, palatal *n'* or *ñ*, the dental *n*, and the labial *m*. Only the two last-named may be considered as original constituents of the language. The guttural nasal *ñ* (*ng*) has originated from dental *n* before the guttural explosive:—

Kusun-kotan, the town Korsakovsk
ahun + *kani* = *ahunkani* 'to enter'
ahun + *ke* = *ahunke* 'to let enter'
ehan + *ke* = *ehanke* 'near'
itanki 'teacup'; Batchelor spells *itangi*
kunkani 'gold,' Japanese *kogane*
añ-kutihi 'metal girdle'
tonkori 'a musical instrument'

As equivalent of Yezo *šinnam* 'cold, frost' I noted on Saghalin *šinnamai*.

As a final, *ñ* occurs very seldom; for instance, *kakuñ* 'pouch,' *kamiyuñ* 'thunder.'

The palatal *n'* occurs only before *e* or as a final, and the palatalization is weak and almost imperceptible. *N* changes into *m* before labials: *tan* + *pe* = *tampe* 'this thing.' Yezo final *m* sometimes becomes *n* or *ñ* in Saghalin: Yezo *haram* 'lizard,' Saghalin *harian*; Yezo *hum* 'voice,' Saghalin *huñ*. Final *n* and *s* after *o* and *u* may be dissolved into *i*, thus forming a diphthong, or being lengthened:—

pon čika(p) 'small bird' becomes *poi* and *pō čika(p)*
wen ainu 'a bad man'—*wei ainu*
išo rui 'bear-skin', for *rus*
tonči and *toiči* 'pit, dilapidated habitation'
 Yezo *setan-ni* and *setai-ni* 'Pyrus toringo'

The spirant *x* has been observed by me in the same manner as by Piłsudski and in the Kuril dialect by Radliński. It occurs as initial, medial, and final, corresponding not only to *p*, *t*, or *k* of Yezo, but also to *h*, *č*, and *ra*.

SAGHALIN
oax 'one of a pair'
maz 'wife'
kux 'belt, girdle'

YEZO
oara
mat, mači
kučih (Kuril *kut*)

<i>axto</i> 'rain'	<i>apto</i>
<i>oyaxta</i> 'abroad, away'	<i>oyakia</i>
<i>čux, čup</i> 'sun'	<i>čup</i>
<i>suroxte</i> 'they sit' from <i>rok</i> 'to sit'	
<i>šinox</i> and <i>šinot</i> 'to play'	

There is no doubt that Yezo has preserved the original condition, and that *x*, which is absent in Yezo, presents a secondary development on Saghalin. Sometimes *x* appears as a euphonic insertion, as in *reporxe* 'a sea-animal' from *rep* ('sea') + *ox* (instead of *o*, 'in, inside') + *pe* ('thing, creature'), or in *pinoxponne* 'stealthily' from *pi* ('secret') + *no* + *ponne* (two adverbial suffixes).

Pilsudski explains that *f* occurs but rarely, and as a secondary sound, produced by the influence of the neighboring vowel (*kuf*, *kux*, *kuči* 'girdle,' original form *kut* or *kut'*); *p*, when weakened, sometimes becomes *f*, but is always accompanied by *u* (*čup* or *čuf* 'luminous body, sun, moon'). I heard *f* in *čufčikin* 'east,' but *čupahun* 'west.' In *utufta* 'between,' from *uturu* 'interval' and *oxta* 'in,' *f* seems to be evolved from *x*; compare also *ekoxpe* and *yokofpe* 'a single rock in the sea.' Batchelor says that 'the letter *f* resembles the true labial in sound, it being softer than the English labiodental *f*; it is always slightly aspirated as though indeed it were *h*.' On Saghalin I heard *f* and *w* as bilabials, seldom as dentolabials, and only in the combination *fu*. All examples of initial *f* given in Batchelor's *Dictionary* and occupying but two pages are indeed of the type *fu*, and several cases show an alternation of *fu* and *hu*: *fuči*—*huči* 'fire,' *fura*—*hura* 'scent,' *furu*—*huru* 'hill,' *fuško-toita*—*huško-toita* 'anciently,' *futtat*—*huttat* 'bamboo grass.' Dobrotvorski enumerates after doubtful older sources a few words beginning with *fa*, *fe*, *fi*, *fo*, but all these can be easily traced to initial *h*, *p*, or *w*; for instance, Dobrotvorski's *faibo* 'mother' in fact is *habo*, *faigar* 'spring' is *paikara*, *fambe* 'ten' is *wambe*, *fets* 'river' is *pet*. None of these examples speaks in favor of an original *f*. It is plain that the use of this fricative is very restricted, and, as justly emphasized by Pilsudski, is secondary. When Batchelor adds that it is often found in words which appear to be of Japanese origin (this observation was made also by Dobrotvorski), I believe that this points to the real source of the consonant in Ainu, which in my estimation was adopted by them from the Japanese in comparatively late historical times. This assumption would harmonize

with the fact that in the dialect of Kamchatka and the Kuriles *f* is absent; Radliński at least does not give any word with initial *f*. In Japanese also, *f* occurs only before the vowel *u*, *h* being substituted for it with the other four vowels; or rather the rule should be formulated that *h* before *u* becomes *f*. In Japanese likewise, *f* and *h* (probably developed from *p*) are interrelated.

In regard to *h* and *w* I have nothing to add to the remarks of Piłsudski, except that I am not inclined to accept his view that *w* (or, as he writes it, *v*) is always voiced.

Of sibilants I distinguished in Saghalin Ainu three—the dental sibilant *s*, the palatal sibilant *š*, and an intermediary sound transcribed *ʃ*, in the formation of which the tip of the tongue moves farther down than in the two former. This *ʃ* I regarded not as an independent sound, but as secondarily developed from *s* before certain vowels within a word, and as perhaps representing merely an individual variation, as some persons pronounced a plain *s* in the place of *ʃ*. In all probability it is developed from a palatalized *s* (*s'*). Piłsudski denies and rejects *š* entirely, and replaces it by *ś*, equalizing the latter with Polish *ś*,²³ and defining it as between *s* and *š* with a distinct palatalization, or an approach to the position in which *i* is articulated. Abbé Rousselot remarks that *s* is formed by the tip of the tongue held somewhat downward, and its upper surface (dorsum) raised toward the palate. I have no doubt that Piłsudski's *ś* (not heard or noted by Batchelor) coincides exactly with my *ʃ*, especially as his examples of *ś* agree with my records of *ʃ* (for instance, *sam* 'to marry,' *i-sam* 'to marry me'—where Piłsudski justly attributes the origin of this *ś* to the influence of the preceding vowel *i*),²⁴ but I am convinced also that a genuine palatal *š*, as recorded by Batchelor for the Yezo dialect, likewise exists on Saghalin. This observation is confirmed by the fact of a phonetic alternation of *t*, *t'*, *č*, and *š*.

Compare the following examples:—

²³ The same observation was already made by A. Pfizmaier, 'Erörterungen und Aufklärungen über Ainu,' p. 30, *Sb. Wiener Akad.* 1882).

²⁴ Some examples noted by me are *seta* 'dog,' but *pō-seta* 'small dog' (*po* originated from *pon*, *poi*); Yezo *sesek*, *šesek* 'warm'—Saghalin *sēšē*; *rus* and *ruš* 'skin'; *sīs* 'eye'; *čīs* 'to weep, to grieve.'

Kuril <i>t'eonatarp</i> 'green'	Saghalin and Yezo <i>šinunin</i> 'green,
<i>t'eonatorpa</i> 'yellow'	yellow'
(Klaproth: <i>t'euninua</i>)	
Saghalin <i>t'ise</i> , <i>t'ise</i> , <i>t'isä</i> 'house'	Yezo <i>ōisei</i>
Yezo <i>inuye</i> , <i>šinuye</i> 'to tattoo, carve'	Saghalin <i>inuye</i> , <i>ōinuye</i> , <i>šinuye</i>
Kuril <i>kut</i> 'girdle'	Yezo <i>kuōihi</i> (<i>kutšihi</i>)
Kuril <i>po-mat</i> , <i>e-po-moō</i> 'daughter'	Yezo <i>mat</i> , <i>mači</i> (<i>matši</i>) 'wife'
	<i>matne</i> 'female' of animals
	Yezo <i>etu</i> , <i>eči</i> , <i>čietu</i> 'spout, handle'

Of liquidæ Ainu possesses only *r*. *L* is absent, as in Japanese. In Russian loan-words *n* is substituted for initial *l*, while Russian medial *l* becomes *r* or is dropped entirely. The Russians are called by the Ainu *Nuča* instead of *Luča*, the general name for the Russians among the Amur tribes. Russian *gul'ai* 'to walk' is pronounced by the Ainu *kurai*. Ainu *čanki* 'chief, commander, superior' (address to all Russian gentlemen) is derived from Russian *načal'nik*. Pilsudski affirms that he heard clearly *l* instead of *r* pronounced by many persons on Yezo in the village Piratori and still more frequently in Shiravoi. This observation is confirmed by Abbé Rousselot, who says that *l* exists only as a modification of *r*. Accordingly it is a mere local variation, and cannot be credited to the fundamental phonetic system of Ainu. *R* has its normal articulation; only as an initial it is, according to Rousselot, semi-occlusive, yielding such variations as *r*, *tr*, *kr*, *tl*. Pilsudski heard *tr* or *dr* only after *n*, and noted a frequent interchange of *t* and *r*, particularly among the Ainu of the north. I heard *tāşoku* 'candle' for Japanese *rosoku*, and *tetara* 'white' for Yezo *retara*.

The consonantal system of modern Saghalin Ainu is accordingly composed as follows:—

	Explosives		Nasals	Spirants	
	Palatalized				
Gutturals	<i>k</i>	<i>k'</i>	<i>ñ</i>	<i>x</i>	<i>h</i>
Palatals	<i>c</i>		<i>n'</i>	<i>š</i>	
Dentals	<i>t</i>	<i>t'</i>	<i>n</i>	<i>s</i>	<i>š</i>
Labials	<i>p</i>	<i>p'</i>	<i>m</i>	<i>f</i>	<i>w</i>
Liquids	<i>r</i>				

Eliminating the secondary, more or less modern, developments, we obtain the following:—

	Explosives	Nasals	Spirants
Gutturals	<i>k</i>	..	<i>h</i>
Palatals	<i>č</i>	..	<i>š</i>
Dentals	<i>t</i>	<i>n</i>	<i>s</i>
Labials	<i>p</i>	<i>m</i>	<i>w</i>
Liquids	<i>r</i>		

That this limited inventory of eleven sounds bears no relation to Altaic, Indo-European, Semitic, or Bask, with all of which Ainu has thoughtlessly been compared, must be patent to every one. Ainu is an isolated language at present, its congeners, if they ever existed, being extinct long ago.

Of all sounds the vowels have been most unsatisfactorily fixed in the Ainu texts hitherto placed on record. Batchelor and Pilsudski note merely *a, e, i, o, u*, while Abbé Rousselot points out that *a, e*, and *o* may have the three different qualities of timbre found in French. In the speech of Saghalin I discerned eight vowels—*a, ä, e, ɛ* (*e* in gardener), *i, o, â* (English *aw*), *u*, and the semi-vowels *y* and *ɥ*. In the articulation of *â* the larynx is lowered, the tip of the tongue is pressed downward, and the orifice is rounded. This vowel is important, as it sometimes occurs in the same word beside ordinary *o*, and as there are homonyms distinguished only by these two timbres of *o*; for example, *porâ* 'seal,' *pâ* 'to boil' (intr.), but *po* 'child.' The diphthongs are *ai, ao, au, eo, eu, ou, oi, âi, ui, oa, ua, ɥa, ea*. As the language has no accentual stress, but only a musical accent (as in Japanese or French), the distinction between short and long vowels is very slight. There are no naturally long vowels, but all vowels may be artificially lengthened under the force of the chromatic accent. In conversation, the word *pirika* 'good, well,' for instance, may be heard according to circumstances in three different ways—*pírika, piríka*, and *piriká*. Monosyllables terminating in a vowel as a rule evince a tendency to being somewhat lengthened; for instance, *kû* 'bow,' *tû* 'two.' Lengthened vowels, moreover, arise from contraction of two vowels into one or from elision of consonants: *či + okai* yields *čókai*; Yezo *ataye-hauke* 'cheap' becomes *atāhauki* on Saghalin; *pon seta* 'small dog' develops into *poi seta* and *pōseta*; *pūrai* 'window' co-exists with *puyara*. Many vowels between consonants show a tendency to evaporate and to be almost eliminated: *seta* 'dog'—*s^hta*, Kuril *sta*; *šiken* 'sledge'—*š^hken*, Kuril *skini*; Yezo

čikap 'bird' becomes on Saghalin *čika*, *čka*, *čkapu*, and *čkap*. This fact accounts for the many consonantal combinations in the Kuril dialect, like *st*, *sk*, *kr*, and others, which are otherwise foreign to the language.

Pilsudski observes: 'It seems that the Ainu make no fixed distinction between short and long vowels; that is, they know nothing of quantity properly so-called. We can only say that an accented syllable is longer, and may be simply termed long; but this length is in strict connection with the accent. However, we do meet with fixed differences in quantity in certain words the sound of which would otherwise be the same; their only distinctive quality is the length of articulation.' As examples he cites *ē* 'to eat' and *ě* 'to come,' *rū* 'way' and *rŭ* 'ice in the river' or 'a flock of birds.' Pilsudski has further made a new and interesting observation, namely that a few homonyms change their accents to bring out a change of meaning; thus, *átai* 'chair'—*atái* 'payment'; *án-koro*, possessive pronoun—*an-koró* 'I have'; *širi* 'earth'—*širí* 'payment'; *úma* 'horse'—*umá* 'also.' The same phenomenon is encountered also in Japanese: *áme* 'rain'—*amé* 'a kind of sweetmeat'; *háši* 'chopsticks'—*haši* 'bridge,' etc.²⁵ It would not be surprising that the Ainu, as in so many other cases, should have imitated the Japanese model.

Some vocalic changes in the various dialects are noteworthy. Final *a*, for example, is eliminated in the Kuril dialect:—

KURIL	YEZO
<i>rip</i> 'high'	<i>ripa</i> (Saghalin <i>ripa</i>)
<i>rer</i> 'wind'	<i>rera</i>
<i>rar</i> 'eyebrows'	<i>rara</i>
<i>čar</i> 'mouth'	<i>čara</i> , <i>čaro</i>
<i>mukar</i> 'ax'	<i>mukara</i>

The Saghalin and Kuril dialects have sometimes preserved a final *u* which is dropped in that of Yezo:—

Saghalin and Kuril <i>erumu</i> 'rat'	Yezo <i>erum</i>
Saghalin <i>ihoku</i> 'to buy'	Yezo <i>ihok</i>

²⁵ For other examples see B. H. Chamberlain, *Handbook of Colloquial Japanese*, 3d ed., p. 20. The accent is so extremely slight that it will be hardly noticed by an untrained ear, but it really exists, as I had many times occasion to convince myself. It cannot be compared in strength with the energetic tonic accents of Russian in such pairs of words as *sámok* 'castle'—*zamók* 'lock'; *múka* 'grief'—*muká* 'flour'; *óbrás* 'manner'—*obrás* 'pattern'; *pólnoči* 'midnight'—*polnóci* 'half a night.'

When more exact records of the various dialects are placed at our disposal (and there are none thus far of the Kuril dialects), it will be possible to establish a greater number of phonetic laws and to trace the history of Ainu speech, possibly leading also to a clue as to tribal migrations. The fact that the Yezo and Saghalin dialects are closely related was, of course, known long ago; but the theory that the idiom of Saghalin is purer or more archaic must be disputed. Despite the possibly larger variety of vowels, diphthongs, and spirants (*x* and *s*, both of secondary origin), the phonetic system of this dialect shows decided evidence of a far more advanced state of disintegration and even deterioration. The dialectic differentiations are largely phonetic and lexicographical; accident and structure appear to be the same everywhere. According to statements made to me by natives of Saghalin, their language is not divided into dialects, but is spoken with a high degree of uniformity. Local variations of words are frequent, particularly in the names of animals: an eagle is designated in Naiero *furä*, in Naibuči *pisetteri*; Naiero *samakka* (explained as 'a black sea-eagle with a red-tipped beak') answers to *onnim* of Naibuči; a strap of sea-lion skin used for carrying loads is styled *ečikä* in Ottašam, but *tara* in Naiero and Taraika. There are likewise identical words with different meanings on Yezo and Saghalin; for instance, *hoinu* on Yezo means 'marten,' on Saghalin 'sable.' We need a complete dictionary of the Saghalin dialect for further comparative study; we need a good grammar of the language, not after the fashion of the Latin grammar, but one interpreting the spirit and laws of the language from within. We have had enough theories and fancies about the Ainu; it is time to get at the facts.

THE SABBATH AND FESTIVALS IN PRE-EXILIC AND EXILIC TIMES

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In order to trace the origin of the Sabbath and the festivals and follow up the stages of their development, we must not consult the codes of law and the meaning attached to the words of the same in later times, but examine certain historical facts in the other narratives and in occasional allusions and draw our conclusions therefrom. By this method of historical-critical research we arrive at an altogether different calendar system in ancient Israel than that with which we are familiar. The Sabbath and the festivals have gone through a process of evolution which we must try to unravel and which few of our historians have made clear. Nor have our Assyriologists succeeded in elucidating this process, especially in regard to the Sabbath, as the recent work of Morris Jastrow, *Hebrew and Babylonian Traditions*, and an article of his on 'The Day after the Sabbath' (*AJSL* 30. 94 ff.) seem to show.

THE SABBATH

To begin with the Sabbath, let me state that we know as yet too little of the Assyrian Sabbath to build important theories concerning the origin of the Jewish Sabbath upon it. The name *Shabbatum* in the Babylonian calendar has been found by Pinches in a glossary to designate the full moon; hence the Hebrew Sabbath must have had the same meaning, according to Jastrow, Meinhart, and others. On the other hand there was brought to light long ago a Babylonian Elul calendar according to which the 7th, 14th, 19th, 21st, and 28th days were regarded as unlucky days, on which the priest-king was not allowed to officiate as judge, use fire, eat cooked meat, etc.; but the term Sabbath is not applied to these *dies nefasti*. Now, while the older Assyriologists were inclined to identify these days of the Elul calendar with the Hebrew Sabbath (suggesting that the nineteenth day was really the forty-ninth—that is, seven times

seven, counted from the beginning of the previous month), modern Assyriologists no longer lay stress upon this fact, and insist instead upon the other fact that Shabbatum designates exclusively the full moon. Combining with it the etymology of Shabat, which is elsewhere explained by *gamar* 'to complete,' they explain the term Shabbatum to be the time of the completion of the moon's light, 'when the sun on the other side of the sky casts its full light upon it.' Prof. Jastrow goes even so far as to explain the *ממחרת השבת* to have meant originally the morrow of the full moon, because the Passover feast begins on the 15th of Nisan, assuming the verse in question to belong to two or three different sources. As we shall later see, the whole argument regarding the Passover feast rests on a fundamental error. But aside from that, I do not think that there is any basis or justification whatsoever for identifying the Hebrew Sabbath at any time with the full moon. It seems to me that we are not in a position as yet to assume with any kind of certainty that the Hebrew Sabbath was simply taken over from the Babylonians, at least in historical times. Like all the things Babylonians and Hebrews had in common, the Sabbath seems to me to belong to an older epoch when the Babylonian lore was not as yet developed, and the Hebrew Sabbath may just as well throw light on the Babylonian Shabbatum as *vice versa*. Each had its own process of growth.

This much, however, is certain, that the Hebrew Sabbath is not only older than the Decalogue of the Exodus, which connects it with the Creation week, as does the Elohist in the first chapter of Genesis, but also older than the original form of the Decalogue: *זכור את יום השבת לקדשו*, which refers to the Sabbath as an established and known institution, and is by no means a new commandment. It is, however, quite noteworthy that the older Decalogue of Ex. 34 simply says, *ששת ימים תעבוד וביום השביעי תשבת*, while the same Sabbath is implied but not mentioned. The chapter on the Manna, Ex. 16, offers indubitably an explanation for the Decalogue expression *זכור את יום השבת* by the narrative's placing the commandment of the Sabbath before the Sinai Revelation—a point of view which the rabbis present in connection with the words *שם שם לו חק ומשפט* in Ex. 15. 25 (see *Mekilta*, ad loc.).

For us, however, the question is whether the Hebrew Sabbath was from the beginning based upon the fixed institution of the week, which certainly rests on Babylonian astrology, or whether it originally corresponded with the four lunar phases, so that the seventh, fourteenth, twenty-first and twenty-eighth of each month were the days of the moon's 'stand-still,' that is, Sabbath days. The latter view is expressed by Nowack, *Hebr. Arch.* 2 144, who refers also to Wellhausen, *Prolegomena*², p. 107. It seems to me that too little stress has been laid on the important fact that, throughout the entire pre-exilic literature, the Sabbath occupies only the second place alongside of the new moon, which is always mentioned first and foremost as a day of rest and of feasting, of sacrifice and of seeking the word or oracle of the Deity as given through the sacred seer. I refer to the well-known passages, 2 Ki. 4. 23; Am. 8. 5; Hos. 2. 13; Is. 1. 13; 66. 23, where **חַדֵּשׁ** always precedes the Sabbath. Down to the Exile—Ezekiel forms the interesting turning-point, as we shall see later on—the New Moon played a far greater role in ancient Israel than may be inferred from the Mosaic Code, where it is no longer made a day of rest, but has only the character of a survival in the Temple Cult. Note, however, Amos 8. 5, where the people are represented as saying: **מִתִּי יַעֲבֹר הַחֲדָשׁ נִשְׁבִּירָה שֶׁבֶר וְהִשְׁבַּת וּנְפַתַּחָה כֹר**: i. e., they could not sell corn on the New Moon, just as they could not on the Sabbath. Very characteristically we find the day previous to the New Moon, and in distinction from the same, called by Jonathan (1 Sam. 20. 19) **יוֹם הַמַּעֲשָׂה** 'Work Day,' which plainly shows the New Moon to have been celebrated by the people as a holy day. The presumption, then, is that the New Moon was the more solemn holy day, given over to feasting and sacrifices of a higher order among the families, such as we find it celebrated in the royal house of Saul and occasionally among certain classes in Israel (**זָבַח הַיָּמִים שֵׁם לְכָל הַמִּשְׁפָּחָה**) 1 Sam. 20. 6), over against which the Sabbath days of the month were but, so to say, diminutive moon seasons, four holy days of lesser solemnity and importance. But this very chapter reveals a fact the importance of which has not been recognized by historians. It is the agreement of David and Jonathan to meet again in the field on the third day, that is on the day following the two New

Moon days (20. 5, 12, 19). That they could thus speak beforehand of the two New Moon days as a self-evident matter shows that the New Moon was not celebrated only on the first day of the month, when the reappearance of the moon had been observed by the respective functionaries, but on two days; that is, on the twenty-ninth and thirtieth days of the month, the latter day leading over to the next month, which was counted from the day following as the first day of the first lunar week. We get in this way the following division of the month: four lunar weeks, each ending with the Sabbath, and these twenty-eight days to be followed by the two New Moon days—thirty days altogether. But they occasionally divided the month into decades as did the Egyptians, and as we learn from the term **עשור** and **עשור לחדש**. As a rule, however, the heptad prevailed. The holy number seven belongs to very ancient Semitic traditions, as all the oaths are made among the various Semitic tribes by the number seven. Hence we have the word **נשבע** 'to swear,' which means 'to be bound by the holy seven.' (Whether the seven planets or Pleiades or some other seven was the object is not as yet ascertained.) The name **שבועה** for week, also **שבוע**, (in Jacob's story: **מלא נא שבוע זאת**, Gen. 29. 27) is certainly old. All the festivities in private and public life filled up a full week, and, strange to say, the Sabbath is never mentioned in this connection. Not even in the story of the siege of Jericho is there any mention of the Sabbath. This can be accounted for only by the assumption that the Sabbath as a separate institution is of a later date.

The new and full moon, however, were celebrated by all Semitic, nay by all primitive, tribes. The Moon was the real Measurer of time, as the Greek or Aryan **μην** expresses it. Especially for the wandering tribes of the desert the Moon is the guide on the night march. Consequently the Bedouin still hails the appearance of the new moon with shouting, dancing, and clapping of hands, as Doughty describes it in his *Arabia Deserta*. And we learn from Job 31. 27 that the idolatrous practice of throwing kisses at the moon was still practised when that book was written. How much of a recrudescence of this was allowed to come in by the cabbalistic writers in the solemn greetings of the Kiddush-Lebanah rite, is not necessary to point out here. At any rate the New Moon celebrations, which were undoubtedly connected

with the Canaanite or Semitic worship of the queen of Heaven, and the round cakes, כֻּנִּים, offered her on the roof-tops of the houses, as we learn from Jer. 44. 17—25, could not but meet with disfavor on the part of the Hebrew legislators. Here we have the reason for the abrogation of the New Moon as a day of rest. Only the priestly tradition retained the New Moon in the cult (Ezek. 45. 17; 46; and Num. 28. 10 f.). The Cabbalists, or Mystics, during the late Middle Ages gave dignity to the New Moon, and by a strange atavism, the Jewish women—compare the women in Egypt mentioned by Jeremiah—desisted on that day from doing work. The priest-prophet Ezekiel in his legislative system accords to the New Moon only the second place alongside of the Sabbath (cf. Ezek. 46. 1—3). A still more interesting change which the New Moon has undergone in the writing of Ezekiel, and which henceforth influenced the literature of the Jewish people (Num. 28. 10 and elsewhere) is that the name is changed from חֹדֶשׁ 'renewal' into רֵאשִׁית חֹדֶשׁ 'beginning of the month,' and חֹדֶשׁ henceforth stands for month. We shall soon see what this implied for the regulation of the festivals in the Mosaic Code. But we have to turn our attention first to the new concept of the Sabbath.

The Sabbath is transformed in the Decalogue from a lunar holy day into a day of the Lord, and made an institution independent of the phases of the moon, a weekly institution, whether for the rest of man, as the Deuteronomic decalogue has it, or as a testimony to God's creation of the world in a seven-day week, as the decalogue in Exodus has it. The latter idea is, of course, a transformation of the Babylonian myth in the monotheistic spirit. With Ezekiel (20. 20) begins the special accentuation of the Sabbath as a sign between Israel and his God, and hence also the Holiness Code, which emanated from the Ezekiel school, renders it a special sign of the covenant between Israel and the Lord (Ex. 31. 13, 17). In the Priest Code the ancient concepts of the Sabbath as a day of austerity and of the prohibition of labor, of the use of fire, of cooking, etc., made themselves felt again, and this led to ever greater rigidity in the Sadducean and Karaite and then in the Shammaite circles, whereas the Exilic seer in Is. 58. 13 voices a different view regarding the joy and cheer on Sabbath, though wishing to have the day devoted to divine things exclusively. The passage in Jeremiah (17. 19—27)

threatening those that trade on the Sabbath with the conflagration of the city belongs to the time of Nehemiah and ought never to have been assigned to the great prophet.

Before concluding my views on the Sabbath, I wish to call attention to the one fact which the Assyriologists have failed to consider. Had the Sabbath been really known in Babylonia as a holy day outside of the priestly cult, the Biblical Sabbath could never have been made the sign of the covenant, or a mark distinguishing the Jewish people from the rest, as is already done by Deutero-Isaiah and by Ezekiel. The idea of the distinction of Israel from the surrounding nations became the guiding motive in the Mosaic Code also for the festivals, as we shall now see.

PESAH

There can hardly be any dispute as to the meaning of **חַדֵּשׁ** 'New Moon,' wherever it occurs in ancient literature. Let me ask, then, when is Passover to take place, according to Deuteronomy? There can be but one translation of 16. 1, **שָׁמַר אֶת חֹדֶשׁ הָאֲבִיב וַעֲשִׂיתָ פֶּסַח לַיהוָה אֱלֹהֶיךָ כִּי בַחֹדֶשׁ הָאֲבִיב הוֹצִיאָךְ יְיָ מִמִּצְרַיִם לַיְלָה** 'Observe the New Moon of the Ripening Crops and offer the Paschal sacrifice, for on the New Moon of the Ripening Crops hath the Lord brought thee out of Egypt at night.' To translate **חֹדֶשׁ** by 'month' is simply impossible in view of the word **לַיְלָה** at the end of the verse. In other words, the Passover at the time of King Josiah was celebrated, not on the eve of the 15th, but on the eve of the New Moon. Nor was it, as described in Exodus 12, the sacrificial day of a lamb, but, as we read in the following verse, of all kinds of animals taken from the flock and the cattle. This Deuteronomic precept receives its light from Ex. 13. 1—10, 11—16, where we have the duplicate of the law prescribing consecration of the first-born of man and beast and the sacrifice of the first-born of the beast on the memorial day of the Exodus. There we read also: **כֹּאשֶׁר צִוִּיתִיךָ לְמוֹעֵד חֹדֶשׁ הָאֲבִיב כִּי בַחֹדֶשׁ הָאֲבִיב הוֹצִיאָתִי מִמִּצְרָיִם הַיּוֹם אַתֶּם יוֹצְאִים בַּחֹדֶשׁ הָאֲבִיב** 'This day have you been going out of Egypt on the New Moon of the Ripening Crops.' So also in Ex. 34. 18 and 23. 15 (where the same law is given concerning the Feast of Mazzoth with especial reference to the redemption, or sacrifice of the first-born). There we find also the express statement **כֹּאשֶׁר צִוִּיתִיךָ לְמוֹעֵד חֹדֶשׁ הָאֲבִיב כִּי בַחֹדֶשׁ הָאֲבִיב הוֹצִיאָתִי מִמִּצְרָיִם**

יָצָאת מִמִּצְרַיִם: 'On the New Moon of the ripening of the Crops didst thou go out of Egypt.' By the way, let me say here that that little fragment in Ex. 4. 22—26, **הִנֵּה אֲנִי הֹרֵג אֶת בְּנִי**, ending with **בְּנִי בְּכֹרִי יִשְׂרָאֵל** belongs to the oldest stratum of the Exodus story in connection with the Pesah, connecting the Shepherd Spring feast with the death of the first-born. Originally then the Pesah as a festival of Spring was celebrated on the New Moon of the Spring Month, when the blood of the first-born of the flock or cattle was put on the forehead and hand of the people, and also sprinkled on the door-post and door-sill, a practice that is still in vogue among fellahin natives of Palestine, Syria, and the Arabian peninsula (see Curtiss, *Ursemitische Religion*, p. 206 ff. and Dillmann, ad loc.). The change from the New Moon to the Full Moon is first recorded by the prophet Ezekiel, 45. 21, and then in the priest code, Ex. 12 and Lev. 23, which latter chapter is of composite nature and not a pure product of the Holiness Code. As a matter of fact the Passover feast was only, in consequence of the Deuteronomic Code, transformed from a Shepherd household feast into a national festival under King Josiah (2 Ki. 23. 22), and then connected with the Mazzoth feast.

THE FEAST OF WEEKS

Coming to the Feast of Weeks, we observe that it nowhere has a special date as to the month, or day, like the other festivals. It was and remained even during the period of the second temple an agricultural festival, the time of which was determined by the end of the harvest of the barley and wheat crops, which lasted seven weeks. The Deuteronomic Law simply says: 'Thou shalt count seven weeks'—that is seven times seven days, without a mention of the Sabbath anywhere—and then thou shalt celebrate the Feast of Weeks.' The older code of the Covenant calls it **חֹג הַקִּצִּיר** adding **בְּכֹרֵי מַעֲשֵׂיךָ** (**קִצִּיר**). Ezekiel does not mention it at all; for **שְׁבִיעֹת** for **שְׁבַעַת** in 45. 21 is a scribal error. But the law in Lev. 23. 9 ff. devotes to it a long paragraph, which has become a matter of dispute not only among priest and sage, Sadducee and Pharisee of olden times, but also among the scholars, Jewish and non-Jewish, to this very day. I refer to the well-known passage in verses 15—17. I hold that no unbiased reader can translate this otherwise than

the Sadducees originally did: 'Ye shall count from the day following the Sabbath, on which day you bring the Omer of the first barley harvest [of which it expressly says, v. 11, **ממחרת היום**], seven weeks, and then on the following day, the morrow of the seventh Sabbath, which is the fiftieth day (Pentecost), ye shall celebrate the Feast of Weeks.' In other words, then, on the day following the Sabbath when they swung the sickle at the standing corn (which, of course, could not be done on the Sabbath Day), they offered the Omer of the first barley, and on the day following the seventh Sabbath, which is the fiftieth day, they brought the two loaves of bread made from the new wheat as a sacrifice for the Feast of Weeks. What has been lacking in this Biblical Law is a specific date, which was not necessary, as it depended each year on the time of the ripening of the crops. This was good enough for the priests of the Temple, but what about the Jew living far away from the holy land? Should he forego celebrating the Feast of Weeks? It is remarkable that the Book of Jubilees (6. 17 f.; 14. 20—21) takes the name **חג השבועות** to be the feast of the covenant oaths, telling us that the covenant made with Noah, with Abraham, and with Israel on Sinai were all made on the fifteenth of Sivan.

The rabbis, with reference to Ex. 19. 1, point to the giving of the decalogue as the historical event which took place on the sixth, or as R. Jose says in *Shabbath* 86 b, the seventh, of Sivan, the **יום מתן תורה—חג הקציר יום שבו נתנה תורה לישראל** (*Shemoth* R. 31. 17), taking the term *Kazir* as the spiritual harvest, the day when the Law was given to Israel. Of course, the **יום חדש השלישי** here also can refer only to the first day, since it says **ביום הזה**. But the rabbis, or rather the Pharisees, wanted to have a close connection made between Pesah and Shabuoth in order to fix the date of the latter, and at the same time give it a historical character, and so they interpreted the words **ממחרת השבת** to mean 'on the day following the first day of Pesah.' So already the LXX has it. The first step to this connection between Pesah and the Omer sacrifice was taken at the time when the story of Israel's entrance into Canaan was told by the people, about which the Book of Joshua tells us that **ממחרת הפסח**, on the morrow of the Pesah, that is on the fifteenth day of Nisan, the

people ate Mazzoth of the produce of the land, while the Manna ceased. This **ממחרת הפסח** in Joshua could serve as some kind of support to the Pharisees to refer the expression **ממחרת השבת** of the Omer to the day after the first day of Pesah, while the Karaites and their predecessors, the Boethusians, and the Falashas refer it to the day after the last day of Pesah, so as to bring the Shabuoth festival close to the fifteenth of Sivan (see Jubilees, *l. c.*).

THE SUKKOTH FEAST

As to the Sukkoth festival I have long ago come to the conviction, and I now find also Dr. Ehrlich's commentary and Carpenter, quoted by Berthelot, *Leviticus*, p. 79, on my side, that the name has nothing to do with the harvest tents, as most modern exegetes think. There is nowhere such an allusion to harvest tents in the Bible, neither in Deuteronomy, where we might expect it, nor in Exodus 23. 16 or 34. 22, where it is simply called **חג האסיף בצאת השנה** or **תקופת השנה**. As a matter of fact, it was the *Hag*, 'Pilgrimage Feast' *par excellence* (see 1 Ki. 13. 2; 12. 32; Lev. 23. 39—41; Ezek. 45. 23; Neh. 8. 14, and Mishna *R. H.* 1. 2; cf. Nowack, *l. c.* 150). But it is an error to ascribe to the Sukkoth feast, as Nowack does on p. 155, the Deuteronomic law concerning the offering of the first fruits (Deut. 16. 1), as both the Mishnah *Bikkurim* 3. 2 and Philo (Mangey, 2. 298), who calls it 'the feast of the basket,' show that there was no connection between the two. Naturally the pilgrimage feast of the people took place after the summer's work was over, when they could come in large numbers to the temple of Shilo, or Jerusalem, as the Muhammadans come to Mecca for their Hajj. And where would they find a shelter, unless, as is done in Mecca, they would erect tents for all the strangers? This gave the pilgrimage feast the specific name of Feast of Tents. But the priestly legislator was not satisfied with this idea of a simple harvest festival. He was anxious to invest it with historical meaning, and so he connected it also with the story of the Exodus. But how? The usual interpretation is that the words 'I placed you in tents when I brought you out of Egypt' refer to the fact that the people, on their journey from Egypt in the Wilderness, dwelt in tents. But in this case the verse ought to read, **בהוליכי אותם במדבר**, not **בהוציא**

אוֹתָם מֵאֶרֶץ מִצְרַיִם. A glance at the history of the Exodus and the list of journeys shows that Sukkoth was the gathering-place of the Hebrews, or the first station of their wanderings (Ex. 12. 37; 13. 20; Num. 33. 5). It matters not whether the name is derived from the tents built there, or whether the name happened to be Sukkoth, just as we learn of Jacob that he gave the name Sukkoth to a place where he built his tents (Gen. 33. 17). The idea is that God provided a place of tents as a gathering-point for the fugitive slaves at their exodus from Egypt. Hence also the controversy between R. Eliezer, R. Akiba, and other Tannaim as to the meaning of Sukkoth, whether it denotes the place of Israel's starting-point at the Exodus, or whether God built for them these tents, or whether He wrapped them in clouds like tents to protect them when He brought them out of Egypt (see *Mekilta* to Ex. 12. 37; 13. 20; *Sifra* to Lev. 23. 43). That the tents in which the wine harvest is celebrated by the people should have given rise to the festival, as is the opinion of the various exegetes (see Dillmann, Berthelot and Driver on Deut. 16. 13, following Robinson, *Bibl. Researches*, 2. 81 f.), has no foundation in the Scripture, as there is nowhere any allusion made to the Sukkoth feasts being celebrated as a wine festival, whereas the pilgrimage tents correspond to the name Hag.

As regards the striking difference which exists between Nehemiah 8. 15, where the law regarding the Sukkoth tents is quoted, and the passage in Lev. 23. 40, I am quite sure that our Code text has undergone a transformation, and that the text in Nehemiah is more authentic. According to the latter the plants mentioned were all used for the cover of the tents and instead of **פֶּרִי** the reading was **עֵץ הָדָר** (not **הָדָם** 'myrtle,' as Ehrlich thinks, nor can I accept his **פֶּאֶרִי** 'branches,' instead of **פֶּרִי**). The Talmudic authorities have no longer any comprehension of **עֵץ הָדָר** **פֶּרִי** and do all sorts of guessing. Our Ethrog is really the Persian Othrang, which is our orange; while Josephus (*Ant.* 3. 10. 4) and LXX seem to think of a peach instead of a citron. The prophet Zechariah, or rather the author of the fourteenth chapter, which belongs to a very late date, gives us an insight into an altogether different and yet archaic character of the harvest feast of Sukkoth, when he describes it as a feast of rain which is to bring its fertility to those nations who come to Jerusalem for the celebration of the feast, and the

blessing of which is to be withheld from the nations who do not come to bow down before the One and Only God of Israel in Jerusalem. Obviously we have here an ancient water festival, traces of which are found also in Is. 12. 3 and 30. 29. It is called in the Mishnah *Sukkah* (5. 1) *Simhath beth ha-shoebah*, 'Festivity of the House of the Water-drawing.' It consisted of a procession from the Shiloah Spring to the temple made by large crowds following the priest with his chalice of water for the water libation at the altar, and was preceded by dances during the whole night of each day of the Sukkoth festival, amidst the play of instruments and the carrying of torches, in which especially 'the Hasidim and the Wonderworkers' (*anshe maaseh*, probably the Essene 'rain-makers') took a prominent part. It closed with the beating of the willows—*hibbut arabah*—at the close of the feast (*Sukkah* 4. 1—6, cf. Ps. 118. 27). The Sadducean priesthood, however, opposed it (*Sukkah* 4. 9; *Tosefta Sukkah* 3. 1, 16). The ceremony was connected with the belief in the water foundation in the depth of the world's center as placed beneath the Temple mountain of Jerusalem (see *Sukkah* 53 a, b), a belief still shared by the people, Jew and Christian, and it reaches far back in ancient Semitic life, as has been shown by Feuchtwang, *Das Wasseropfer u. d. verb. Ceremonien*, 1911 (cf. Sepp, *Jerusalem*, Index, s. v. Siloa).

The name Azereth in Lev. 23. 36 and Num. 29. 35 for the last day of the festival gathering seems rather to denote 'Conclusion Feast,' as is shown in Deut. 16. 8, and as Tradition has it, which gave to the Feast of Weeks as the ending of the seven harvest weeks also the name Azereth, Aram. *Azarta* (*Rosh ha-Shanah* 1. 2; *Hagiga* 2. 4; Josephus, *Ant.* 3. 10 b).

These three festivals were adopted from the Canaanites as agricultural feasts, and, no doubt, celebrated originally in the various sacred localities according to the ancient custom, while the annual pilgrimage feast at the end of the agricultural year (Ex. 23. 16; 34. 22) was at an early date made an especial season of gathering at the main Sanctuary of Shiloh (Ju. 21. 19; 1 Sa. 1. 3).

THE NEW YEAR'S DAY

The other two festivals ordained in the Priest Code (Lev. 23. 23—32; Num. 29. 1—11) have in my opinion not been satisfac-

torily explained as to their origin and meaning. The priest-prophet Ezekiel seems to have taken cognizance in his festal system (45. 18—25) of the double calendar existing already in ancient Palestine as well as in Babylonia, the agricultural one beginning in the fall (see Ezek. 40. 1) and the sacred or official one beginning in the spring (2 Sam. 11. 1; 1 Ki. 20. 22; Jer. 36. 9, 22). Accordingly he proposed an Expiation for the Temple on the first of the *first* month of the sacred calendar and another on the first of the seventh month (בשביעי באחד לחודש). This is the reading restored after LXX by Cornill, Smend, and Wellhausen. As was seen already by Ewald, the Priest Code has, in accepting the agricultural calendar beginning the year in the spring, made it its object to build the whole system of Jewish life on the holiness of the number Seven, according to which the seventh day of the week, the seventh month of the year, and again the year following the seventh time seventh year as the Jubilee year should be holy unto the Lord. Accordingly the New Moon of the seventh month, being the Sabbatical month following the six months of agricultural labor, was, in distinction from the New Moon of any other month, which was always ushered in by the blowing of trumpets (Num. 10. 10), to have a more sonorous blast by the Shofar, and therefore it is called a day of memorial by blowing the horns (Lev. 23. 24; Num. 29. 1), whereas the first day of the first month of the year has nothing specific as the year's beginning. The rite of expiation of the Temple, however, is transferred from the first (on which day Ezekiel has it, 45. 20) to the tenth of the seventh month. The reason for this must be sought in the fact that this was the ancient solar New Year's day, as Ezekiel has it in 10. 1, and because the Jubilee year was according to the later legislation to begin on this day (Lev. 25. 9—10). It was only with the introduction of the Babylonian system of the months that the first of Tishri, which denotes 'the month beginning the year,' *Tasritu* (see now Jastrow's highly interesting article 'Sumerian and Akkadian Views of Beginnings,' *JAOS* 36. 274—299, esp. p. 298, n. 62), became in the Jewish liturgy the New Year's Day, while it was a subject of the controversy between R. Eliezer and R. Joshua of the second century whether on the first of Nisan or of Tishri the creation of the world or of man took place (*Rosh ha-Shanah* 10 b-11 a). Possibly the important event recorded in

Neh. 8. 2 ff. of the introduction of the book of the Law by Ezra at the festal gathering on the first day of the seventh month, marked as especially 'holy,' had some influence on rendering this day a great memorial day for the future. Still the day is characterized there as one of joy and social festivity, not of a serious nature such as the New Year's day became afterwards. Unquestionably, however, it was the old Babylonian New Year's day, celebrated originally in the fall at the beginning of the seventh month Tishri (corresponding also with the seventh month of the Persian calendar named after Mithras), on which Bel Marduk or his predecessor, as the supreme deity of Babylon, sat in the mystic chamber of the fates to determine from the book of life the destiny of mankind for the coming year,¹ which gave the Jewish New Year's day its serious character as the day of divine Judgment on which the Creator and Judge of the world assigns to all men their destiny according to their merits or demerits each year, inscribing the same in His book or books of life, finally to seal it on the Day of Atonement.

THE DAY OF ATONEMENT

The great Day of Atonement, celebrated on the tenth day of the seventh month, which forms the culminating point of the Temple worship of the year, called like the Sabbath, 'a Sabbath of complete rest,' Lev. 16. 31, has a unique character among the Jewish festivals. While obviously unknown as yet in Ezra's time (Neh. 8), not to speak of the Solomonic time (1 Ki. 8. 65), it soon became during the second Temple 'the great Day' of the year and afterwards the most solemn holy day of the Synagogue. To account for its origin and meaning it is not sufficient to point to Ezekiel's proposed system, according to which the first day of the seventh month was like that of the first month to be a day of expiation of man's sin and of atonement for the temple (Ezek. 45. 20), and simply to assume that the author of the Priest Code transferred it to the tenth day in order to have the New Moon of the Sabbatical month stand out as distinguished from the other New Moons of the year. We have also to consider

¹ See Jastrow, *Religion of Babylonia and Assyria*, p. 67—69, especially p. 68; Schrader-Zimmern, *KAT.* p. 402 f., 514 f.; Alfred Jeremias, *Das Alte Testament im Lichte des alten Orients*, p. 43, 357, note 3.

the fact that the tenth of Tishri is called by Ezekiel (40. 1) 'the beginning of the year,' and that the Jubilee year was actually to be proclaimed by the blowing of the horn as holy on the Atonement day, the tenth of the seventh month, which implies that the year began on that very day (Lev. 25. 9—10). It is obviously the solar year, in contradistinction to the lunar year, the beginning of which was to be marked according to the system recognized also in the story of the Flood (see Gen. 8—9, cf. 7. 11), where the difference is also one of ten days.

Here, then, the question arises whether it is likely that the strange rites prescribed in Lev. 16, which placed the Azazel, the demon of the wilderness, in some sort of opposition to Yahweh, the Only One God of Israel, were introduced as an innovation during the second temple at a time when the religious spirit of the people and the priesthood was scarcely susceptible any more to the worship of the goat-like deities, the *Seirim* (= satyrs) against which ch. 17. 7 warns. It was Ibn Ezra in his commentary to Lev. 16. 8 who saw the relation of the Azazel to these demons 'of the field.' But we know from the book of Enoch, written in the second pre-Christian century, what an important role among the demons Azazel played. The Masoretic writing אַזַּזֵּל was introduced to give the name אַזַּזֵּל as found in Mandaean, Sabaeen, and Arabian mythology (Norberg, *Onomasticon*, p. 31, Brand, *Mandaeische Theologie*, p. 197 f.) the meaning of a 'rugged place,' (*Sifra* ad loc.; *Yoma* 67 b) instead of a 'wilderness deity.' The very spot in the neighborhood of Jerusalem, the sharp rocks (Beth Hadude) where the scapegoat was to be cast down to Azazel according to the Mosaic Code (*Yoma* 6. 8), was regarded as the place where the demon was cast down by the angel Raphael there to remain shackled in the darkness until Judgment Day (*Enoch* 10. 4—5; see Charles, ad loc.). In other words, Azazel was in the popular belief the head of the demons whose dwelling was in the wilderness around Jerusalem. The sending out of the scapegoat to him laden with the sins of the people was originally, then, the cleansing of the people of all impurity in order to secure their welfare for the year just begun. It was an ancient rite dating from primitive time, to be compared with the rite concerning leprosy (Lev. 14. 7), which has its analogies also in Babylonian rites (see Sayce, *Hibbert Lectures*, 1887, p. 461), and in all likelihood the

festal dance of the maidens on the hills of Jerusalem assigned in the Mishnah *Taanit* 4. 8 to the Atonement day and the fifteenth of Ab (August), reminding one very much of the dance of the maidens at the sanctuary of Shilo (Ju. 21. 21), was connected with the celebration of the solar New Year's day (cf. Morgenstern *JAOS* 36. 324 f.). The signals informing the people of the arrival of the scapegoat at its destination, the Azazel rock (*Yoma* 6. 8), seem to have been the inducement to open the dance on the hills.

Now it is rather strange that the date for the Atonement Day is not given at the beginning of the chapter, but in v. 29, which together with v. 30—31 did not belong to the original text. Possibly the whole law underwent changes as to date and contents. As a matter of fact the chapter is composed of many sources, as was shown by Benzinger and others (see Berthelot and Driver *ad loc.*). From a popular New Year festival it was transformed by the author of the Priest Code into a day of great pontifical function, and the final redactor of Leviticus in inserting v. 29—31 rendered it a Day of Atonement for the people. Later on the Pharisees invested it with a still higher or holier character in rendering it a day of prayers for repentance as well as fasting, a day of divine mercy on which the thirteen attributes of God (Ex. 34. 6—7) revealed to Moses were brought home to the people as assurance of the divine forgiveness. They went even so far as to refer the words: *Ki bayom hazeh yekapper*, 'on this day he shall atone,' not to the priest but to God, who shall, through the day, have atonement for the people (*Sifra* to v. 30). Thus the whole idea of sacrificial worship on the Atonement Day, on which the Epistle to the Hebrews (c. 9) and Barnabas (c. 7) base their doctrine of Christ as the world's Atoning High Priest, was replaced by the prayers and litanies of the 'great day.'

THE TRAVELS OF EVLIYA EFFENDI

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A comparatively small amount of material has been translated from Turkish into English and published. The Latin, German, and Italian, and even the Hungarian and Danish languages have all received considerable portions of the early Ottoman historical writings, of which English shares with French the defect of having received very little. A number of poems and humorous stories, and some longer stories, have been translated into English, often too freely to give a correct impression. E. J. W. Gibb has published an extensive anthology of Ottoman poetry.¹ But were it not for *The Travels of Evliya Effendi*, there would exist, I believe, no single sizable piece of Englished Turkish. This translation, furthermore, while probably corrected by an Englishman, was made by an Austrian German, the great Orientalist Joseph von Hammer.² Curiously enough, though doubly incomplete, it contains, I believe, in the 350,000 words of its 676 folio pages, the longest work that has been translated out of the Turkish, except possibly Fluegel's translation into Latin of Haji Khalfa's annotated bibliographical dictionary.³ Evliya

¹ E. J. W. Gibb, *History of Ottoman Poetry*, ed. E. G. Browne, 6 vols., 1909—.

² *Narrative of Travels in Europe, Asia, and Africa in the Seventeenth Century*, by Evliya Efendi. Translated from the Turkish by the Ritter Joseph von Hammer (Oriental Translation Fund). Vol. 1, pt. 1, xviii + 186 pages; pt. 2, iv + 256 pages; vol. 2, v + 244 pages. London, 1846—1850.—The translator has provided an introduction, tables of contents, and about 50 notes, but no index. The 'Advertisement' bears the date Jan. 20, 1834, showing that the translation was completed before that date. It is not known what assistance, if any, von Hammer had in the preparation of his translation.—All subsequent references without titles are to the volumes and parts of this work.

³ *Lexicon Bibliographicum et Encyclopedicum*, a Mustafa ben Abdallah Katib Chelebi dicto et nomine Haji Khalfa, edidit, latine vertit, et commentario indicibusque instruxit G. Fluegel, 7 vols., Leipzig, 1835–1858.

seems to have fallen far short, from the chronological point of view, of writing a narrative of all the travels and adventures of his forty or fifty active years, but he has largely compensated for this by including so great a part of all he knew or could learn about things in general. His work contains, besides its central motive, an autobiography of the author, a sort of guide-book to Constantinople and the Levant, a broken sketch of Ottoman history from the beginning to about 1676, no small quantity of unreliable statistics, a description of the administration of the Empire in the time of Suleiman, a lively enumeration of the 'thousand and one' trade-gilds of Constantinople, and a wealth of anecdotes, legends, and observations.

Evliya lived from 1611 until about 1680,⁴ and thus witnessed most of the period of high and perilous equilibrium in Turkish history which stretched from the peace of Sitvatorok in 1606, when Austria ceased to pay tribute for her holdings in Hungary, until the year 1683, when the second failure of the Turks before Vienna initiated their long and incomplete retreat southeastward. All that is known of his life is to be found scattered piecemeal through his narrative. If his own story be accepted without question, he was descended from great men of the time of Sultan Orkhan and even of the Caliph Harun ar-Rashid.⁵ His great-grandfather, Yawuz Ali Usbek, had been Mohammed II's standard-bearer at the conquest of Constantinople.⁶ Rewarded with an estate in the city, he built on it one hundred shops, and then by good Ottoman custom bestowed it upon a mosque as an endowment, in such a way that his descendants would always be

⁴ 1. 1. 110: 'I, the humble writer of these pages . . . was born on the 10th of Moharrem, 1020 [A. H.].' Kara Mustafa is mentioned as grand vizir (1. 1. 156), which position he held from 1676 until his execution after failing to take Vienna, in 1683. If the number 51 be correct for the years of Evliya's active life (1. 1. 174), this would equal about 49 Christian years, and, added to 1631, would bring him to 1680.

⁵ 1. 1. 35, 36. Evliya claims descent from Sheikh Ahmed Yesovi of Khorasan, who sent his disciple, the famous Hajji Bektash, to Sultan Orkhan; and from Mohammed Hanifi, whose son Sheikh Jafar Baba was sent as ambassador to Constantinople by Harun.

⁶ 1. 2. 48. The burying-ground of Evliya's family was at Kasim Pasha, behind the Arsenal. Here lay his father, his grandfather Timurji Kara Ahmed, his great-grandfather, and many other relatives.

administrators and entitled to a share of the income.⁷ Evliya's father, Dervish Mohammed Zilli, had been the great Suleiman's standard-bearer, and was for an unbelievable number of years head of the gild of goldsmiths of Constantinople.⁸ This very numerous organization enjoyed special imperial favor, since Selim I and Suleiman, following the practice by which every prince of the Ottoman house must learn a trade, had been apprenticed as goldsmiths (1. 2. 188). Evliya's mother had been a Circassian or, more strictly, an Abaza slave girl.⁹ Her brother Malik Ahmed rose as slave-page in the palace through various offices of government, until he became grand vizir of the empire and was honored with the hand of the Sultan Murad IV's daughter.¹⁰ The help and influence of this highly successful adventurer accomplished much for his nephew, who was less ambitious and important, but freer and happier.

The comprehensive character of Evliya's book is related to a remarkable breadth of experience. The offspring of a freeborn man of ancient Moslem lineage and a slave woman from the rough mountains of the Caucasus, he was educated according to standard Moslem fashion along the road which led to the high positions in religion and law, but he also had opportunities to mount a certain distance in the government service, which was gradually departing from the rule according to which its higher

⁷ 1. 1. 31. Evliya's book gives many references to the numerous Ottoman religious endowments; see for example, 2. 91. For a brief discussion of the subject see my *Government of the Ottoman Empire in the Time of Suleiman the Magnificent*, p. 200-203.

⁸ 1. 1. 39, 141: 'Praise be to Allah, that my father was the chief of the goldsmiths from the time of Sultan Soleiman to that of Sultan Ibrahim.' The former died in 1566; the latter ascended the throne in 1640.

⁹ 1. 1. 152. Her father, an Abaza, was the *Kiaya* of the *Kapujis* (superintendent of the gatekeepers) of the important man Ozdamir-Oghlu Osman Pasha. She and her brother Malik Ahmed were sent to the home country for what was considered a better bringing-up (1. 2. 61), and when the brother was 15 years of age they were brought back and presented to Sultan Ahmed, who took the boy into the page-school of the palace and gave the girl in marriage to Evliya's father.

¹⁰ 1. 1. 118, 152, 162; 1. 2. 13. This lady, whose name was Ismahan Kia, died in childbirth in 1651, at the age of 27. Malik Ahmed served as governor in a remarkable number of provincial capitals, including Diarbekir, Buda-Pest, Cairo, and those of Bosnia and Rumelia, both before and after his term as grand vizir.

positions were open only to those who had begun life as Christian slaves.¹¹ In addition to this, Evliya was trained in his father's profession as a goldsmith, and so had a definite place in the economic organization of the empire (1. 2. 189). Although he seems never to have been married, he was far from indifferent to the beauty of women, or, indeed, of boys.¹² He became initiated as a dervish into one of the many mystical religious orders (1. 2. 93 ff.), but he also spent much time in the gay life of a well-to-do young man about town (1. 2. 246; 2. 28). He passed through all of this as 'a poor, destitute traveler, but a friend of mankind' (1. 1. 2), and, as he himself says, being 'of a vagabond Dervish-like nature' (2. 28), he entered all doors but took up a fixed abode nowhere.

In his formal education he studied seven years in the Madressah of Mufti Hamid Effendi, one of the numerous endowed colleges of Constantinople (1. 2. 37). Here he heard the general lectures of Akhfash Effendi, and he mentions gratefully the names of three of his teachers, and in particular that of Evliya Mohammed, after whom he was probably named.¹³ 'Evliya' means 'saints,' and perhaps it was the accident of his name that led him to become a traveler, eager to visit the tombs of Moslem saints. He describes, however, a picturesque dream in which in the mosque of Akhi Chelebi he saw the Prophet Mohammed and was given a commission to travel through the world and visit the tombs of holy men.¹⁴ He was then just twenty-one years of age, and desired, he says, 'to escape from the power of my father, mother, and brethren' (1. 1. 1). His first journey was confined, however, to a thorough and detailed inspection of his native city and its environs¹⁵; not for ten years did he venture a longer

¹¹ This rule is discussed in my *Government of the Ottoman Empire*, p. 45 ff. The education for religion and law is described on p. 203 ff.

¹² See his descriptions of the inhabitants of various towns, 2. 128, 144, 149, 196, etc. For example: 'The beautiful youth of both sexes at Meragha are everywhere renowned.'

¹³ 1. 2. 83: Sheikh Hedayi Mahamud Effendi 'adopted me as his spiritual child'. In 1. 1. 32, 137 Evliya shows his reverence for the elder Evliya.

¹⁴ 1. 1. 2—4. Evliya's book mentions the tombs of hundreds of Moslem saints, whose final resting-places he sought out at every opportunity.

¹⁵ The description of this, with much other material intermingled, occupies his first volume (which is also that of the translation, including parts 1 and 2).

flight for the sole purpose of travel. Meantime he accompanied his father on the military expedition to Tabriz in the year 1635 (1. 1. 129 ff.). His education had not ceased, and its last period, though the picturesque account is open to the suspicion of being overdrawn, was of exceptional character. Small of stature and of youthful appearance, he was possessed of an attractive voice, and had learned to sing, accompanying himself with various musical instruments; and to intone the Moslem call to prayer, read the Koran, and lead prayers in the most approved fashions.¹⁶ In the same year 1635, on the Night of Power, when Santa Sofia was filled with reverent worshipers, and Sultan Murad IV himself was present in his private box, Evliya, by the advice of his father, and very probably with the collusion of his uncle, who then held the high office of sword-bearer, took a place on the seat of the muezzins, and at a suitable time, began to chant the Koran. The impression which he made on the Sultan resulted in a summons to the palace and an adoption into the corps of pages.¹⁷ Though Evliya claims that he told the Sultan he knew seventy-two sciences and was acquainted with 'Persian, Arabic, Romaic, Hebrew, Syriac, Greek, and Turkish' (1. 1. 133), nevertheless he was given a series of text-books and assigned regular lessons (1. 1. 137). He claims to have 'enjoyed the greatest favor' of Murad (1. 1. 138), and certainly he showed through his life a special attachment and loyalty to him. Before the great expedition to Baghdad in 1638, which secured that city to the Turks 'unto this day,' Evliya had been graduated from the palace school, and made a *spāhī* or cavalryman, with a high salary.¹⁸ It would seem, however, that he did not go on that

¹⁶ His small size is revealed in 1. 1. 134, 139. He served for 3 years as reader in the mosque of Salim I (1. 2. 6) and frequently afterward as *Muassīn*.

¹⁷ A sprightly account of his life in the palace is given at 1. 1. 132—142. In previous times he would not have been allowed to remain more than a year, since pages were 'graduated' at twenty-five years of age. Hammer states erroneously that Evliya remained in the palace only a short time and then went on the expedition to Erivan (1. 1. iv). He went to Erivan first (1. 1. 129—131). The Sultan returned to Constantinople on the 19th of Rajab, and Evliya entered the palace in Ramazan, two months later. He remained about three years, it appears.

¹⁸ 1. 1. 141—142: 'Previously to his Majesty's undertaking the expedition to Baghdad, I left the imperial Harem, and was appointed a Sipahi,

campaign, and that for some unstated reason he left the permanent public service before the year 1640.

Evliya's first independent trip for travel was made in the year last mentioned, to Brusa (2. 1 ff.). With this began his series of journeys out from Constantinople and back, by which in the course of half a century he saw most of the lands of the empire, and especially Asia Minor, the shores of the Black Sea, and the Balkan peninsula.¹⁹ Nor did he omit the pilgrimage to Mecca, and he saw Egypt and Syria by the way.²⁰ He also passed the frontiers and visited northern Persia and Russia,²¹ while his longest single journey was one of three and a half years in Western Europe, in the years 1664-1668.²² It is particularly to be regretted that he left no account of this journey, for his view of the infidel countries written for the edification of the faithful would be both amusing and instructive. Some of his journeys were taken under military orders, as by sea to Crete in 1645²³ and to Dalmatia a little later.²⁴ Summing up his adventures, he says that in his life he was present at twenty-two battles (1. 2. 57), saw the countries of eighteen monarchs, and heard one hundred forty-seven languages.²⁵

Evliya adorns his narrative with some book knowledge, includ-

with an allowance of forty aspers per day.' If this figure be correct, Evliya received a salary with which he was expected to bring into service, when needed, three or four cavalymen besides himself.

¹⁹ The second volume describes in detail his circuit of the Black Sea and his travels in many regions of Asia Minor and the adjacent portions of Persia. The first volume contains brief allusions to his journeys through most parts of European Turkey.

²⁰ The account of this journey is lost; see below, p. 239.

²¹ 1. 1. 164. He traveled 70 days in Russia in the year 1668.

²² 1. 1. 163. He visited Vienna, Dunkirk, Denmark, Holland, Sweden, and Poland. 'In the year 1668, on the night of the Prophet's ascension, I found myself on the Ottoman frontier, at the castle of Toghankichid, on the Dniester. Conducted by my guides, who were Kozaks [Cossacks], I saw lights in the minaret, and, for the first time, after so long an absence, I heard the sound of the Mohammedan call to prayer.'

²³ 2. 74 ff. Evliya is a valuable first-hand authority for the history of this expedition.

²⁴ 1. 1. 149. Evliya says that he was then in one of the Janissary companies, a statement not easily to be reconciled with his claim to have been in the superior position of *Spāhī* of the Porte seven years earlier.

²⁵ 1. 1. 174; 1. 2. 99. Evliya attempts, at 1. 1. 11-12, to give the name of Constantinople in 23 different languages. Some of the forms are cor-

ing allusions to the ancient literature of Arabia, Persia, Islam, and even Judaism and Christianity.²⁶ Yet from the fact that he went no farther in the religious school system, he does not seem to have possessed an exceptional order of intellectual excellence. It was probably a serious trial to his father that he failed to utilize any of the brilliant opportunities that were before him in business, the army, the government, the law, or the church. He did, however, finance many of his travels by utilizing portions of his training in these various directions.²⁷ He was evidently quick-witted, well-mannered, shrewd, and resourceful. Though so fond of good company, he insists strenuously and repeatedly that, like his father before him, he never tasted forbidden drinks. 'I, who spent so much time in coffee-houses, *buza*-houses, and wine-houses, can call God to witness, that I never drank anything during all my travels but this sweet *buza* of Constantinople preserved in boxes, that of Egypt made of rice-water, and that of the Crimea, called *makssáma*. Since I was born, I never tasted in my life of fermented beverages or prohibited things, neither tobacco, nor coffee, nor tea, . . . nor wine, . . . nor beer,' and so on to no less than sixty-eight items.²⁸ Can it be that he 'doth protest too much'? He recognized as prevalent and deplored other Oriental vices, but in this regard he made no affirmation of innocence, and indeed, laid himself distinctly open to suspicion.²⁹ At the same time, not only is there a religious ingredient in his work from beginning to end,

rect, as the German *Konstantinopel*, while others are clearly inaccurate; the 'African' name is said to be *Ghirandviyyeh*, which seems to be a representation of the French *Grande Ville*.—In this connection may be mentioned the visitors to the Mosque of Suleiman (1. 1. 81), who in the picturesque account of their visit are related to have exclaimed 'Maryah, Maryah'; this may have been *merveilleux*, and if so, the visitors were presumably French.

²⁶ These allusions, too numerous for citation, are especially frequent in regard to literary, Biblical, and early Moslem personages.

²⁷ For example, he was *muazzin* on the admiral's ship for the expedition to Azov in 1641 and for that to Crete in 1645; he went to Erzerum a little later as *muazzin* of the Pasha and clerk of the custom-house, etc. (2. 59, 77, 78).

²⁸ 1. 2. 246. Evliya makes positive denial also at 1. 2. 54; 2. 139. The latter forms part of a most interesting description of his entertainment by a Persian governor.

²⁹ See the allusions at 1. 2. 34, 85; 2. 12; etc. The prostitutes in Constantinople in his time were boys, not women (1. 2. 53, 109).

but piety appears to be no extraneous and superadded feature of his character.⁸⁰

For us of to-day who desire to learn from him about his people and his times, the questions of accuracy, veracity, and critical judgment are of great importance. In all of these respects credit can be given him for good intentions and sustained efforts, but in none can it be affirmed that he is unimpeachable. In general, he has the tendency frequent in Orientals, to substitute an exaggerated estimate for patient laborious calculation, he is not uninfluenced by a desire to exalt his own knowledge and achievement or to give point to a story, and he is credulous as regards such matters as the deeds of saints and the longevity and the adventures of ancient and garrulous campaigners. It is then not to be expected that his book would possess the calm, judicial, meticulously accurate, and designedly uninteresting character of the ideal work of a scientific historian. It is in fact a very human document. He called his city a 'mine of men' (1. 1. 23), and his book is primarily a mine of information about men. After all due criticism has been made, a great deal of illumination is thrown by it upon the social customs, habits of business, modes of thought, and life experiences of the seventeenth-century peoples whom he knew and visited, and particularly upon his fellow-Osmanlis. The persons whom he introduced in profusion, by masses, groups, or individuals, are all alive, active, and dynamic, whether officials high or low, townsmen or villagers, tradesmen or sailors, priests or soldiers. With a different training, Evliya might have become a Balzac or an Arnold Bennett, a Prescott or a Macaulay.

Evliya states that he began to write his travels in his twenty-second year, at the time when he first resolved to become a traveler (1. 1. 5). Nevertheless the work bears evidence that even the first and fullest portion, the elaborate description of Constantinople which occupies nearly two-thirds of the published translation, was composed in the later years of his life, probably in his seventh decade, after his travels had come to an end.⁸¹

⁸⁰ Such seems a fair inference, not merely from the frequent formulas and affirmations of a religious character, but also from Evliya's turning to prayer in times of danger and special rejoicing.

⁸¹ References to many years of his experience are scattered through his first volume. See note 4.

It is likely, however, though positive proof is lacking except in a few instances, that he gathered materials in the form of notes of his own, and fragments and works of others, during all the active years of his life.³² Unless he possessed an extraordinary memory, the precise statements which he makes presuppose extensive written support, for he has carried out well what he affirms to have been his original commission: 'Thou shalt travel through the whole world, and be a marvel among men. Of the countries through which thou shalt pass, of their castles, strong-holds, wonderful antiquities, products, eatables and drinkables, arts and manufactures, the extent of their provinces, and the length of the days there, draw up a description which shall be a monument worthy of thee' (1. 1. 4).

The historical narratives which are distributed through the book, associated often with the mosques and tombs of Sultans, are, apart from those of his own lifetime, a mixture of truth and error, in such a way as to indicate a combination of oral tradition and written record, modified occasionally by a native untrained criticism. An illustration of his historical offering may be condensed from his story of Constantinople, which he claims to have taken in part from the Ionian history (the 'history of Yanvan') read to him by his Greek friend, Simeon the Goldsmith.³³ King Solomon, who was a Moslem, was the first of nine builders of the city. Alexander the Great, the 'Two-horned,' was the fourth. He it was, furthermore, who cut the channel of the Bosphorus between the Black and the White (or Aegean) Seas (1. 1. 13, 14).³⁴ Puzantin, King of Hungary, evidently the eponymous

³² He mentions: the historical work *Tohfet* (*Tuhfat*), 1. 1. 9; the 'history of Yanvan [Ionia?], 1. 1. 27; the title deeds to his ancestral lands, 1. 1. 31; the statistical *Kanûn-nâmah* of Suleiman I, 1. 1. 88—105; a description of Constantinople in the time of Murad IV, from which he extracted a summary, 1. 2. 44, 100, 104; the constitutional laws of Sultan Suleiman, 1. 2. 89; the constitutions of the different orders of dervishes, 1. 2. 100; the description of Constantinople by Molla Zekerîa Effendi, 1. 2. 102.

³³ 1. 1. 27. Either Simeon or Evliya introduced many things which could not have been found in a Greek history.

³⁴ 1. 2. 72: 'This is the canal which was cut by Iskender Zulkarnin to unite the Black and the White Seas. The traces of this work are even now to be seen on the rocks.'

Greek founder Byzas, instead of being the first founder was the fifth. Constantine the Great instead of second was ninth. Evliya is not quite clear as to the distinction between the first Constantine and the last, for he says that Constantine planted eleven hundred cannon to defend the city, so that not a bird could fly across without being struck, a statement which, aside from double exaggeration, is of course anachronistic even for the thirteenth Constantine. Having been besieged nine times by the Saracens, half the city was surrendered to Sultan Bayazid I, and finally the whole was taken by Mohammed II the Conqueror. At this point is introduced an interesting and characteristic episode (1. 1. 37—43). During the siege twenty relief ships came from France and were captured by the Turks. On one of them was a daughter of the King of France, who grew up to become the cherished consort of Mohammed II and the mother of Bayazid II. Now Evliya very clearly had doubts about this story, but they were resolved in the following way. As a boy he knew an aged friend of his father's, named Su-kemerli Koja Mustafa. 'He was,' says Evliya, 'a most faithful man, and one whose word could be taken with perfect security' (1. 1. 39). Su-kemerli related that he was himself a nephew of the French princess and had been five years old at the time of the taking of Constantinople. Evliya quotes him again as having been 'when a youth of twenty-five years of age, present at the conquest of Cairo by Sultan Selim I.'³⁵ But if his former statement could have been true, he would have been sixty-nine instead of twenty-five years of age in 1517. Not only does Evliya overlook this discrepancy, but he finds nothing difficult in the conclusion that in order to tell these romances to him in about the year 1620, Su-kemerli must have been about one hundred and seventy years of age! Evliya can affirm that his own father was present in 1521 at the capture of Belgrade, and yet lived until 1648!³⁶ Such claims

³⁵ 1. 1. 39. See von Hammer's attempted correction of this, 1. 1. 184, note 7, where he errs in his calculations by three years and is apparently not at all surprised at the extraordinary age of Su-kemerli Mustafa.

³⁶ 1. 1. 39: 'My father . . . was with Sultan Suleiman at the sieges of Rhodes, Belgrade, and Sigetvar.' Mohammed Zilla died in 1648 (2. 240). The great architect Sinan is said to have lived to 170 years (1. 1. 171). See also 1. 1. 46, 60, 152.

have not often been made since the days of the Biblical patriarchs. One can imagine the ancient veterans swapping yarns, which grow with the telling, while the young Evliya, reverently repressing the tendency to doubt, stores all up in his retentive memory. But such credulity impairs for us his value as a historian, at least of times before his own. Still, judging from his general tone and occasional affirmations, he endeavored to state the truth as nearly as he could ascertain it. He wishes, he explains, 'not to incur the tradition of liars, which says: "A liar is he who relates everything he hears"' (1. 1. 63; 1. 2. 21).

He corrects a historiographer's statement as to the place of Selim II's death (1. 2. 10), and observes that whereas there is shown in Santa Sofia the stone trough in which the newly born Jesus was washed, he saw the real one at Bethlehem (1. 1. 65). But he hastens to affirm as 'known to all the world,' that 'crooked and sickly children, . . . when washed in the trough in Ayá Sôfiyah immediately become straight and healthy, as if revived by the breath of Jesus.' In his travels generally he is scrupulous in avoiding the attempt to describe what he himself had not seen.³⁷ In his historical statements likewise he appears to have applied such criticism as he was capable of³⁸ and in general to have reproduced the standard view of the past as accepted by the learned Turks of his time.³⁹ Neither the beliefs set forth above as to Constantinople's early history nor the tradition about the French princess is confined to Evliya's work alone.

He was an especial admirer of Sultan Murad IV, to whose household he belonged for a time. Some of his anecdotes deline-

³⁷ 2. 67. At 1. 2. 132—133 there is a story of a man, a crocodile, and a fish, which is evidently more than Evliya wishes to accept, though he was confronted with witnesses; he likens the experience to that of Jonah. At 1. 1. 60—63 is another tale as to which it is well said, 'the proof of it rests with the relator.'

³⁸ A curious use of criticism is found at 1. 2. 3, where the tradition that Bayazid II died and was buried twice is *corrected* by the explanation that his soul once yielded to the temptation to eat animal food and crept out of his mouth in the form of a living creature; he prevented its re-entrance and had it beaten to death; later, by decision of the Mufti, it was given decent burial.

³⁹ Evliya was more credulous on the religious side than elsewhere. He believed almost anything related of a saint; see, for example, 2. 70—72.

ate the peculiar character of this monarch, and reveal the child-like but dangerous impulsiveness that unlimited authority may develop. The Sultan possessed immense strength, even though one can not believe with Evliya that he once hurled a javelin a mile.⁴⁰ No wrestler could open his clenched fist. On one occasion Evliya advised him after vigorous exercise and a Turkish bath not to wrestle any more that day. Said the Sultan, 'Have I no strength left? Let us see,' and taking Evliya by the belt, he raised him above his head and swung him about for a long time, until he begged for release. Then the Sultan put him down, and gave him forty-eight pieces of gold for consolation (1. 1. 139). On another day Murad, sitting in the garden of Dolma-Baghcheh, was reading a new satirical work by the poet Nefi Effendi, 'when the lightning struck the ground near him; being terrified, he threw the book into the sea, and then gave orders to Bairam Pasha to strangle the author Nefi Effendi.'⁴¹

Evliya falls into a few anachronisms, as when he speaks of Prince Jem and Uzun Hasan as having flourished before the fall of Constantinople, instead of some time after (1. 1. 36). This is in spite of the fact that he expressly affirms his accurate knowledge of the dates of Mohammed II's reign, as obtained from the title deeds to his inheritance (1. 1. 31). Another anachronism illustrates also his credulity. At his father's suggestion a building that was believed to be a thousand years old, situated near Santa Sofia, was opened up in order to become the tomb of Sultan Mustafa I. Says Evliya: 'While the windows were being cut in the walls, a tobacco pipe was found among the stones, which smelt even then of smoke; an evident proof of the antiquity of the custom of smoking' (1. 2. 12). It is interesting to notice that Evliya understood the use of a telescope and had probably looked through one (1. 2. 50).

⁴⁰ 1. 1. 140. Evliya states that Murad, standing in the courtyard of the Old Palace, brought down a crow from the minaret of the Mosque of Bayazid II, one mile distant. He says that the spot where the crow fell was marked by a white marble column inscribed with a chronogram. Possibly the translator, having in mind the principal palace on Seraglio Point, inserted the words 'one mile distant' erroneously. The Eski Sarai of Mohammed III was much nearer than one mile to the mosque of Bayazid II.

⁴¹ 1. 2. 63. See also the incident of the astronomer's well, 1. 2. 60. The pursuit of literature and science was hazardous in the time of Murad IV.

The Orient has seldom been inclined to count exactly and estimate accurately, and in its records enormous exaggerations are possible. Evliya's figures are subject to this tendency, even when quoted from documentary evidence said to have been obtained with great care. He had before him, he says, an enumeration with descriptions of all the buildings of Constantinople, made exactly and completely for Sultan Murad IV in the year 1638 (1. 2. 103). The summary contains the following figures: 'Great mosques of the Vezirs, 1985, small mosques of the wards, 6990, . . . primary schools, 1993, . . . caravansarais, 997, . . . baths, public and private, 14,536, . . . fountains, public and private, 9995.' Now it is clear that in many of these instances, a round number was guessed, ordinarily about ten times too large, as 2000, 7000, 1000, 10,000, and then a slight change was made to make the estimate seem to be the result of counting. Evliya says again that Suleiman's mosque cost 890,883 *yuks*, which von Hammer values at 74,242,500 piasters, equal to about as many dollars, an incredibly large sum.⁴²

If Evliya's historical facts and his figures are unreliable, there yet remains much that is of importance and interest. After the description of the mosque of Suleiman is given a statistical survey of the empire in that Sultan's time, which was evidently copied from one or more written documents, with enlivening annotations from other sources (1. 1. 84—109). In this are included lists of great officials of the reign, the provinces and their *sanjaks*, the pay of the high officials, the number of feudal cavalrymen, and the conquests of Suleiman. A yet more extensive description, requiring some 80,000 words in the translation, is that of the procession of the gilds before the Sultan Murad IV (1. 2. 104—250). This is perhaps the outstanding feature of the book. Says Evliya: 'Nowhere else has such a procession been seen or shall be seen,' and he sighs with relief as he concludes: 'By the Lord of all the Prophets, God be praised that I have overcome the task of describing the gilds and corporations of Constantinople' (1. 2. 250). Participated in by two hundred

⁴²1. 1. 81. The statement at 2. 65 that the Tartar Khan had 800,000 horsemen is an error of copying or translation, since the number 80,000 is mentioned in the previous sentence; this also is very probably an overestimate. Likewise the statement at 1. 1. 145, that the Turkish fleet in 1695 had 11,700 vessels, is not Evliya's own, for his items add up to 1700.

thousand men, who were grouped into some seven hundred and thirty-five companies, this parade passed before the Alai Kiosk, where the Sultan sat, from dawn through the whole day until sunset. Its description gives an unexampled insight into the inner commercial life of Constantinople three hundred years ago. Evliya names the gilds in order, gives each its patron saint, tells the number of its members, and describes the exhibitions each presents. He also inserts many curious observations, as to the ordinary work of the gild members, related experiences of his own, notes from Moslem history, and occasional humorous remarks, anecdotes, and stories. An example may be taken from the account of the vinegar merchants: 'The number of men are one hundred and fifty. Their patron received the girdle from Ins Ben Malek, but I am ignorant of where his tomb is. . . . The oldest patron of the vinegar merchants is Jemshid, who having planted the vine at the advice of Satan, also made the first vinegar. Jemshid is said to be buried at Ephesus. They adorn their shops with large bottles, and roll along casks, crying, "Good excellent English vinegar." They have old casks of from seventy to eighty years' standing, wherein they put neither raisins nor anything else, but hot water only, which in three days becomes the best vinegar. Such casks cost an hundred piasters: in this manner the vinegar makers as well as the sherbet makers sell each drop of water granted to them by heaven.'⁴³

It is clear that Evliya possessed a very definite, if somewhat unpolished sense of humor. Elsewhere he says: 'Seven hours further on is the village of Karajalar, . . . three hundred houses of poor but very obstinate Turks: they will sell the trunk of a tree (for fire-wood) forty times over, putting it in the water every night, so that you may be compelled to lay out ten aspers in brushwood to set it on fire. A traveler marked one of these trunks by fixing a nail in it, and when he returned three years afterwards from the siege of Erivan they gave him the very same trunk.'⁴⁴

⁴³ 1. 2. 150. Among many other examples of humorous or picturesque description of gilds are those of the executioners, 1. 2. 108; the schoolboys, 115; the bakers, 120, 121, 126; the captains of the White Sea, 134—135; the dispute of the butchers and the merchants, 136—138.

⁴⁴ 2. 94. At 1. 2. 85 Evliya says: 'So famous are these meadows of Kiat-haneh, that, if the leanest horse feed in them ten days, he will resemble in

Now and then he manifests a naïve and delightful, if not profound philosophy, as for example in his explanation of why there are so many sheep in the world: 'Although a sheep brings forth but one a year, yet are all mountains covered with them. Meanwhile it is a strange thing that dogs and swine have every year many young, so that one would believe that the world must be filled with them, yet God blesses the sheep because it gets up early and breathes the wind of divine mercy. The swine on the contrary turns up the earth with its snout the whole night, and sleeps during the day. The dog likewise barks the whole night, and in the morning with its tail between its feet lies down to sleep. Therefore the young of swine and dogs never reach a long life. This is a wonderful effect of the wisdom of God' (1. 2. 147—148).

Evliya's descriptions of travel are uniformly sprightly and lively. He narrates the experiences of his journeys, and in connection with each place of sojourn tells something of its appearance, size, history, the characteristics of its inhabitants, its fruits and products, gardens, defenses, buildings, its officers, their incomes, and the saints who are buried near.⁴⁵ Not infrequently he repeats conversations and addresses, and he never hesitates to speak in the first person, yet always in a natural and inoffensive way. His style is regularly characteristic and individual.

It would be too much to ask of Evliya that he should provide serious and adequate reflections upon the institutions and the probable future of his country, for he is no political or social philosopher. The contemporary English observer Paul Rycant, who could not equal Evliya in inside knowledge, possessed from the advantage of foreign birth a far superior objectivity of view.⁴⁶ By combining the information given by the two with the

size and fatness one of the large elephants of Shah Mahmud [of Ghazni]. At the siege of Constantinople there were 40 ships 'filled with some thousand scarlet scull-capped Arabs, burning as brandy, and sharp as hawks' (1. 1. 37). After a battle near the Iron Gates 'the white bodies of the infidels were strewed upon the white snow' (1. 1. 159). Does it reveal humor, credulity, or mere stupidity when he says (1. 1. 56) that the doors of St. Sofia 'are all so bewitched by talismans that if you count them ever so many times, there always appears to be one more than there was before'?

⁴⁵ Cf. the description of the town of Kopri, 2. 218.

⁴⁶ Sir Paul Rycant, *The History of the Present State of the Ottoman Empire*, London, 1668.

testimonies of other travelers, as the Frenchmen Du Vignau and Tavernier,⁴⁷ it is possible to reconstruct with much vividness, depth, and truth the vanished Ottoman society of the seventeenth century.

The translation, so far as it may be judged without a comparison with the original, is careful and generally accurate. The English used is occasionally a little foreign,⁴⁸ but on the whole it is smooth, clear, and lively. The introduction contains a number of errors, due perhaps to von Hammer's reliance upon memory for Evliya's statements about his career.⁴⁹ The translation reaches the end of the second of four volumes written by Evliya, at the year 1648 (2. 243). Immediately afterward he went on his pilgrimage to Mecca, on which he passed through Palestine and Egypt. Von Hammer once saw the third volume, containing the travels in Egypt, in the library of Sultan Abdul Hamid I, but could never again find it there or discover another copy anywhere (1. 2. 200, 255 n. 23). Nor could he find any evidence that Evliya had continued the account of his travels beyond the year 1655 (1. 1. xii). Had the Turkish writer carried out his plan to the full and narrated the experiences of his whole life, he might have produced a work unique in interest as well as in magnitude. As it is, one cannot perhaps dissent seriously from the summary opinion of the translator, who says: 'Evliya must be considered as but an indifferent poet and historian. But in the description of the countries he visited he is most faithful, and his work must be allowed to be unequaled by any other hitherto known Oriental travels' (1. 1. xiv). At any rate he deserves to be placed in the group with such famous wanderers as Masudi, Benjamin of Tudela, Ibn Jubair, and Ibn Batutah.

⁴⁷ J. B. Tavernier, *Nouvelle relation de l'intérieur du Serrail du Grand Seigneur*, Paris, 1681; Sieur Du Vignau, *L'Etat présent de la puissance Ottomane*, Paris, 1687.

⁴⁸ For instance, the use of 'chapel' (*Kapelle*) for 'band', of 'scorch' (*écorcher*) for 'flay', etc.

⁴⁹ See notes 17 and 35. Von Hammer says also that Evliya's uncle Malik Ahmed went to Constantinople to be married to a second princess (1. 1. xii), whereas the text states that he went to be present at the marriage of a princess. He says that Evliya traveled 41 years (1. 1. vi), while the text gives the number as 51 (1. 1. 174).

NAVIGATION TO THE FAR EAST UNDER THE ROMAN EMPIRE

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Communication between Mediterranean lands and the Far East, which had been growing in importance since establishment of political contact in the conquests of Alexander and the consequent opening of the overland caravan routes, became exceedingly active between the first and third centuries of the Christian era through the discovery of the periodicity of the trade winds and the opening of active maritime traffic. There was, however, among writers in the Roman world considerable confusion because of their assumption that the land and sea routes had the same destination. This confusion, due partly to primitive misconceptions of geography, was greatly enhanced by the surprising misinterpretation of reports of various travelers upon which Ptolemy based his geographical calculations.

In tracing the caravan route it is impossible to go far astray because of limitations imposed by mountains, deserts, and water-courses. Richthofen (*China*, 1. 10) and others have followed the whole route between the Pamirs and *Sera metropolis*, which may quite surely be identified with the ancient Chinese capital Singan-fu. This was the great trade route of the silk merchants, and that trade was already of importance in the second century before the Christian era. The sea route was opened first to the west coast of India and Ceylon, where contact was made with another sea route leading further east known to the natives of India as the 'golden route,'¹ and its eastern termini as the 'golden and silver islands'—whence silk was also obtained. Inland from these islands (or shores, either interpretation being possible), was a metropolis *Sina Sinorum*, known to the Roman world by hearsay only, and assumed to be identical with the earlier known *Sera metropolis*, so that both caravan and maritime routes were supposed to have reached the same trade centers.

¹ Nundo Lal Dey, *Notes on the History of the District of Hughli or the Ancient Rada*, JASB new series, 6, no. 11, 1910.

Although the various ports of call along this ocean route have been reasonably identified by comparison of place names, consideration of sailing conditions may still yield matter of interest.

Graeco-Roman navigation in the Indian ocean, as we know from ample evidence from coins, painting, and sculpture, was carried on in open craft, felucca rigged, very similar to the Arab dhows of our own time. Sailing before the wind was preferred: considerable effort was required to hold a course with the wind abeam, and tacking against the wind was not attempted out of sight of land because neither log nor compass was available for calculating or holding a course. The trade winds, which blew from southwest to northeast between April and October, and in the reverse direction between October to April, had doubtless long been used by Arab and Dravidian mariners, but vessels from Egypt to reach these ocean winds depended also on the so-called etesian winds blowing from north to south, and setting in usually about mid-summer, to carry them on the long journey down the Red Sea.² The time for their voyage was therefore very limited. We learn from Pliny (*Hist. Nat.* 6. 26) that vessels set sail from Egypt at mid-summer and in about thirty days arrived at the Straits. There they met the trade wind, which they gave the name *Hippalus* from the first of their countrymen to discover its use, and after exchanging cargo, set sail for India and reached the Malabar coast in forty days. Owing to depredations of pirates, they were obliged to steer with the wind partly abeam so as to make a landfall at the Tamil ports near the southern extremity of India. There they again exchanged cargo and set sail on their return voyage in December, using the southeast trade wind, which, owing to climatic influence due to the Sahara and Arabian deserts, is projected up the Red Sea as a southerly wind. Only by adopting this sailing schedule could the return journey be made in the same season. The voyage from the ports of the Dravidian kingdoms and Ceylon to the Far East was undertaken under similar conditions, except that, since no secondary passage had to be made through a body of water like the Red Sea, the whole period of each monsoon could be utilized. It was easy for the Chola mariners to reach Farther India and the South China Sea with a longer period for exchange

² *Peripl. Mar. Erythr.* 57.

of cargoes and to return the same season. For vessels hailing from Red Sea ports this was impossible. To the Greek or Roman merchant who ventured to the Far East this was a venture indeed, not to be undertaken unless under exceptional conditions of charter or cargo to be secured. There is, however, good reason to believe that the eastern sea trade of India exceeded its western trade and that the commercial activity of Rome in its prosperous period was but the reflection of greater activity in the capitals of India from Madura to Palibothra.

Comparison of the evidence available from the records of Rome, India, and China is of interest. Professor Hirth³ has made the Chinese Annals available, and we find that although the southern coast of China proper, including the ports of Kwang-Tung and Fo-Kien provinces, had not as yet been made part of China, the province of Tong-King had been over-run by the Chinese B. C. 214, was incorporated into the Empire B. C. 111, and remained a Chinese possession until A. D. 263.⁴ This conquest followed that of the province of Yun-Nan, still one of the richest provinces of China in metals, in forestry and agriculture. From the capital of Yun-Nan situated on an inland lake, vividly described by Marco Polo (2. 48), and evidently reflected through the accounts of the Roman traders, there was a well-defined trade route down the Yang-tse river and overland through central China to the capital Singan-fu on the watershed of the Yellow River; and from the adjoining plateau of eastern Tibet through parallel valleys within a few miles of each other flow not only the Yang-Tse and the Red River of Tong-King, but the Me-Kong of Cochin China, the Salwin and Irawadi of Burma. Adjoining Yun-Nan in the water-sheds of these Burmese rivers was located the kingdom of the Shans, then an important tribal federation, and there is reason to believe that an active trade existed out of China through Yun-Nan with the Shans as intermediaries. A Chinese record dating from A. D. 120 informs us that 'the king of the country of Shan sent an embassy to the Chinese Emperor offering musicians and jugglers,' whose accomplishments suggest the juggling of India, and

³ *China and the Roman Orient*, *passim*, from which references herein are quoted.

⁴ Richthofen, *op. cit.* 1. 509.

who said: 'We are men from the west of the sea. The west of the sea is the same as Ta-Tsin. In the southwest of the country of Shan one passes through to Ta-Tsin.'⁵ While Ta-Tsin was the name given by the Chinese to the eastern lands of the Roman Empire, it cannot always be given that meaning, and in this case seems to mean merely people coming from the West. The route is, however, clear; the embassy came by sea to the southwest of the Shan country, that is, the Gulf of Martaban, the shores immediately east of the modern Rangoon, and proceeded inland up one of the river valleys. The modern rail route leaving Rangoon follows the valley of the Sittaung river to Mandalay, thence up the Irawadi. At Bhamo, the head of navigation on that river, the overland route to Yun-Nan began crossing the parallel gorges of the other rivers by suspension bridges. The earlier route probably ascended the Salwin passing the Shan capital Theinni and crossing the other rivers a little lower down, both routes having as their destination Yun-nan-fu, Cheng-tu-fu, and finally Singan-fu. Another Chinese record informs us that in A. D. 166 the king of Ta-Tsin, 'An-tun,' who may of course be identified with Marcus Aurelius, 'sent an embassy with tribute from the frontier of Jih-Nan,' and that 'merchants of this country frequently visit Fu-Nan, Jih-Nan, and Kiao-Tsi,' but that 'few of the inhabitants of those southern frontier states ever went to Ta-Tsin.'⁶ We have here evidently still a confusion of Burma, southern India, and the Roman East. The name of Antoninus suggests a stray Roman subject, but the merchants 'frequently visiting the southern states,' which we may identify with the modern Siam, Annam, and Tong-King, must have come from the ports of India or Ceylon. Another record dating from the fourth century gives us the route from the Chinese capital to its Tong-King seaport, and the routes down the other rivers as follows: 'southeast you come to Kiao-Tsi; there is also connection by water [in fact by both river and ocean routes] with the principalities of Yun-Nan and Yung-Chang [near Bhamo; that is, through Burma].' Chinese interest in distant lands is reflected in this same record in its concluding observation: 'Although in that country, Ta-Tsin, sun and moon and the con-

⁵ *Hou-han-shu*, c. 86.

⁶ *Ibid.* c. 88; *Liang-shu*, c. 54.

stellations are quite the same as in China, former historians say that going a hundred *li* west of Tiao-Chih [mouth of the Euphrates] you come to the place where the sun sets. This is far from being true."⁷

From the hills of Yun-Nan came gold, silver, and precious stones, silk, and the fragrant cinnamon bark so greatly prized in Rome. The upper Yang-Tse in Chinese speech is still the 'river of the golden sands,' and a recent traveler refers to a neighboring river valley as being called the 'silver shore.'⁸ The overland route from Yun-Nan to the upper Irawadi was used by conquering Chinese troops in the 18th century and was by them called the 'gold and silver route.'⁹ The southern port of China mentioned in the record as southeast from Yun-Nan, that is, down the Song-Koi or Red River of Tong-King and named Kiao-Tsi, we may safely follow Richthofen in identifying as the *Kattigara* (or *Katti-nagara*, from some Prakrit-speaking pilot?) of Ptolemy and other Roman writers. This gave the Chinese Empire an outlet to the southern seas, the sailing course from which, being within the tropics, was steered by the southern cross and not the north star. The south seems to have been the cardinal direction with the Chinese. The magnetic needle having already been known to them for centuries, although apparently not put to practical uses for navigation, was also called the south-pointing chariot.¹⁰

Indian records of Farther India show very active communication at this same time. There was missionary activity of all creeds then held in India—Brahmin, Buddhist, and Jain—and there was active sea trade. The 'golden route' of the Chinese was known in India as the Golden Coast, *Suvarṇa bhūmi*, and near one of the mouths of the Ganges was an important port of India named *Suvarṇa Grāma*, the Golden Port, better known in the days of Arab trade as *Sonargaon*.¹¹ Not only from the

⁷ *Wei-shu*, c. 102.

⁸ Johnston, *From Peking to Mandalay*, p. 35, 44, 104, 255.

⁹ Cordier's *Yule's Marco Polo*, 2. 67-76.

¹⁰ Hirth, *Ancient History of China*, p. 126-134.

¹¹ Nundo Lal Dey, *Notes on Ancient Anga or the District of Bhagalpur*, *JASB* new series, 10, no. 9, 1914; cf. the *Mahājanaka Jātaka*, where a single ship from Chāmpā to Suvarṇabhūmi had on board seven caravans with their beasts.

kingdoms of the Ganges was there navigation across the Bay of Bengal: from southern India the sea trade was so important that the Andhra kings struck numerous coins bearing the impression of capacious two-masted vessels used in that service and evidently regarded as the source of national power and prosperity. The Tamil poem *Paddinappalai*¹² gives us a vivid description of a busy port of the Chola Kingdom, *Kaviripaddinam*, which was built on the northern bank of the Kaviri river, then a broad and deep stream into which heavily laden ships entered from the sea without slackening sail. At the beach were raised platforms and warehouses where cargoes were stored. The goods were stamped with the royal tiger stamp after payment of customs duty and then released to the merchants. Close by were settlements of the Yāvana merchants, which name included not only Ionians or Greeks, but Graeco-Bactrians and Parthians. Here were quartered foreign traders from other lands beyond the seas, and precious cargoes of many kinds were brought from all directions—from the northern mountains, the western coast, the valley of the Ganges, Ceylon and Burma. There were lighthouses built of brick and mortar which exhibited flashing lights at night to guide ships to port. Among the workmen on the Chola palace in that city were not only artisans from all parts of India, but carpenters from Yāvana, that is, probably Greeks from Egypt or Syria. Another Tamil poem describes the 'seaport of Muchiri on the west coast near the mouth of the Periyar where the beautiful large ships of the Yāvanas bringing gold come splashing the white foam on the waters of the Periyar which belongs to the Cherala and return laden with pepper.'¹³

An early Sanskrit play of India, 'The Little Clay Cart,' describes the same activity. One of the characters is a gentleman 'dressed in silken raiment glittering with rich ornaments.' In one of the scenes appears a row of jewelers' shops 'where skilful artists are examining pearls, topazes, sapphires, beryls, rubies, lapis lazuli, coral, and other jewels; some set rubies in gold; some work with gold ornaments on colored thread; some string pearls; some grind lapis lazuli; some pierce shells and some cut

¹² Quoted from Mookerji, *History of Indian Shipping*, p. 135-6; see also Pillai, *The Tamils 1800 Years Ago*, p. 16, 24-26.

¹³ *Erukaddur Thayan Kannanar-Akam*; quoted from Mookerji, *op. cit.* p. 135.

coral."¹⁴ In this list there are gems from all four points of the compass.

Meager enough are the Roman references to this sea trade. The conditions of the journey given by Pliny have already been mentioned. The author of the *Periplus* mentions the three kingdoms of southern India: Chera, with its port of Muziris, the *Muchiri* of the Tamil poets; Pāṇḍya, the capital of which, Madura, Pliny reports as *Modiera*; and the 'coast country,' that is, Chola, with its capital called Argaru, that is *Uragapura*, *Uraiyūr*, the modern Trichinopoly on the Kaviri, while the port of *Kaviripaddinam* he mentions as Camara, and says that there were in that port not only the large single-masted vessels peculiar to the Malabar coast, but others very much larger which made the voyage to Chryse and the Ganges. He mentions Chryse as 'an island opposite the Ganges and under the rising sun' and tells us that beyond Chryse the sea comes to an end, and that to the north was 'a land called *This* with an inland city called *Thinae* from which silk was brought overland through Bactria to the Gulf of Cambay and by way of the Ganges to the ports of Damirica,' that is, Tamil Land, the *Tamīlakam* of their poets (*Peripl. Mar. Erythr.* 63, 64).

There is apparent confusion here between the overland Turkestan route to North China and the combined sea and land route to South China. *Thinae*, the eastern metropolis, may be the same in name as *Theinni*, the Shan capital¹⁵; though the Turkestan caravans never reached it, and it is not north of the Gulf of Tong-King, which is the place where the outer sea was thought to come to an end. Burma, Yun-Nan, and China proper were brought into one peninsula by as late a geographer as Edrisi.

The sea route to *Kattigara*, according to Marinus of Tyre, was twenty days coasting south from the Golden Chersonese to a place called *Zabai*, whence, sailing 'a little to the left of south' one came in 'some days' to *Kattigara*. How many days he could not tell, but thought 'some,' as reported to him by mariners, meant 'many.' Ptolemy (1. 14) criticized him severely, and said 'some' meant 'few,' and that *Kattigara* was therefore close

¹⁴ *Mṛcchakaṭika*, Act 4, tr. Ryder, Cambridge, 1905, p. 70.

¹⁵ Kingsmill, *The Mantse and the Golden Chersonese*, *JRAS China Branch*, 35. 76-101.

by the Golden Chersonese. He plotted it on his map, fixed the latitude and longitude, and then asserted that the coast beyond trended westward, joining Africa below Zanzibar. But, calculations notwithstanding, he was guessing, just like Josephus who said Solomon's ships went for gold 'to the land that of old was called Ophir, but now the Golden Chersonese, which belongs to India' (*Ant. Jud.* 8. 2).

Marcian of Heraclea, generally considered a mere compiler out of Ptolemy, gives further details of the far eastern voyage. The unknown land east of the Sinae, and the unknown land south of the sea called *Prasodes* (this name being identical with the *Green Sea* of the Arab geographers and the *Erythraean* or *Red Sea* of the Greeks, although apparently derived from the Sanskrit *prasāda*, 'pacific') came together, making 'a sort of angle near the Gulf of the Sinae.' Above the Sinae, he said, was the region of the Seri and their metropolis; the unknown eastern land was dotted with 'stagnant lakes, in which great reeds grow, so closely crowded together that men cross over the lakes by walking upon them'—which may readily refer to the lakes of Yun-Nan and the bamboos used for bridges there. He mentions *Thinae*, the metropolis of the Sinae, as 'the border between the known and the unknown land'; but the sailing course beyond *Kattigara*, he says, 'cannot be set down in stages or figures,' because 'there are no witnesses to point out the course unless it be some God who knows.'¹⁶

But it is noteworthy that Marcian's sailing distance, ignoring his directions, is reasonably accurate between his 'Point of Departure' at the westernmost mouth of the Ganges, and the mouth of the Cottiaris river by *Kattigara*, if we take that to be the Song-Ka or Red River of Tong-King.¹⁷ And from that point it is true that 'the unknown land to the east' makes 'a sort of angle' with a land reaching westward, the Island of Hai-Nan. Marcian's sailing course also is correct, holding southward from the Golden Chersonese, if we take that as the Martaban coast—the modern Moulmein—and not the lower tip of the Malay Peninsula. There, however, his knowledge ends.

¹⁶ *Peripl. Mar. Ext.* 44, 46: fifth mouth of Ganges to frontier of Sinae, 45,350 stadia; thence to Cottiaris R., 12,650 stadia.

¹⁷ *Ibid.* 44. Concerning the 'Point of Departure' cf. Nundo Lal Dey, *The Vikramasila Monastery*, *JASB* new series, 5, no. 1, 1909.

There is a triple confusion in all these sailing courses of the Roman period. Mediterranean courses were set by the north star, and 'the right-hand coast' would be east. Red Sea courses were set by the wind and the coast-line, never far distant, and the direction being south, the western or African shore was the 'right-hand coast' and the eastern or Asiatic shore the 'left-hand coast.' At the Horn of Africa, Cape Guardafui, the course was set by the trade winds, and connection was made with the active shipping of India, where the cardinal direction was east. This may have led to Pliny's and Ptolemy's failure to realize the southern extension of India, which was well known to the author of the *Periplus*. At the Tamil ports in Southern India, connection was made with shipping bound across the Bay of Bengal to the Golden Chersonese, also a course steered by the trade winds. There connection was made with Malay or Chinese shipping bound to Kattigara, but once past the Straits of Malacca, directions were reversed, and an actual east-and-north course was reported as south-and-west. This may have been due merely to the different point of view of the steersman. The Greek southbound was steering backward, as it were; and the Chinaman forward, south being his cardinal direction.

But finally we have the correct description of the trend of the coast at the head of the Gulf of Tong-King, indicating personal observation by some navigator who was neither Tamil, Hindu, nor Chinese, and the wholly unwarranted assumption that the coast of Hainan extended westward all the way to Cape Prasum in Africa (*Peripl. Mar. Ext.* 40). A like assumption was made by the author of the *Periplus* for Ceylon (*Peripl. Mar. Erythr.* 61). Both were due to the notion of a southern continent or Antichthones, conceived by both Greeks and Romans as necessary to counterbalance the Eurasian continent and so prevent it from sliding off toward the ultimate north.¹⁸

The inferences as to Roman enterprise by sea to the far east are negative. That Roman shipping frequented the ports of the

¹⁸ Cf. Pomponius Mela, *De Situ Orbis*, l. 9: quod si est alter Orbis, suntque oppositi nobis a meridie Antichthones, ne illud quidem a vero nimium abscesserit, in illis terris ortum amnem, ubi subter maria caeco alveo penetraverit, in Nostris rursus emergere et hac re solstitio accrescere, quod tum hiems sit unde oritur. Alia quoque in his terris mira sunt . . .

Tamil Kingdoms and Ceylon is undoubted. But of the great beyond, they brought back hearsay. The author of the *Periplus*, like Tavernier in the 17th Century, gives us a summary out of the Rāmāyana and the Purānas. Marinus of Tyre gives the accounts of a few other mariners, on which Ptolemy makes specious calculations. Tamil literature and coinage alike testify to maritime enterprise eastward, and Chinese annals refer to a few visits of people coming 'from the west of the sea'—which may mean Tamil Land and Ceylon, though in one case the mention of An-Tun seems to mean a Roman subject. All point to the same conclusion, that Roman ships in the Bay of Bengal and the China Sea were so rare that two or three in a century might tell their tale.

But what of that other voyager out of the west, who came to Kattigara and, being conducted to the Chinese Court, gave an account of the lands to the west of the sea, which the Annalist warns us are not at the place where the sun sets? His name comes to us as *Tsin-Lun*¹⁹; that may be no more than Lun, the Tsin, or Roman; and may not Lun also be some attempt of the Chinaman to pronounce *Romanus*? Here was an earlier Marco Polo who should have been imprisoned by some enemy, that the world might be the richer for his memoirs. For of the vast Pacific the only witness to the Roman world might be, as Marcian put it, 'some God who knows.'

¹⁹ *Liang-shu*, c. 54.

BRIEF NOTES

Babylonian Titles of Medical Textbooks

In CT 14, plate 23, the obverse of K 9283 and K 259 are reproduced. The former tablet deals with the treatment of bites and stings of venomous animals; the latter is a pharmaco-therapeutic list for toothache, shaking tooth, and tooth-decay. The reverse of neither of the tablets is there published. The obverse of K 259 was first reproduced together with K 191 by Sayce and is widely used in the literature. The lack of reproductions of the reverse has been a handicap in the determination of the relationship of the different pharmaco-therapeutic series of tablets. The authorities of the British Museum have allowed the reverse to be photographed, and a reproduction of it accompanies this note.

The principal part is the phraseology known from every colophon of Assurbanipal's library. Of the first extant line of the reverse of K 259 only traces are preserved. The end of this line and the next 3 lines read: *nišik tupsaruti ša ina šarani alik mahria mamma šipru šuatu la iḫuzu . . . mala bāšmu ina tuppāni aštur asnik abrima ana tamarti šitassia kirib ikallia ukin*. The signs of the lacuna are: *TI KIB SA AN IV U LI*. The first part of the phraseology (*nišik to ukin*) recurs in every tablet of the *sualu* series, and there a longer passage of the lacuna shows the real title of the medical textbook of which the three *sualu* tablets form a separate volume. The above lacuna of K 259 is again the real title of a large series of tablets containing the materia medica, the indication of the special drug, and its special application, arranged in classified form in three columns. It was some sort of Babylonian practitioner's memorandum.

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The Name Hammurabi

Since the appearance of Ungnad's note on 'Ammurapi,' ZA 22 (1908), p. 7 f., the spelling *Hammurapi* has gradually been displacing the older transcription of the name of the greatest

of the kings of the First Dynasty of Babylon. So generally has Ungnad's reading been accepted that the time seems to have come when one may be asked to show cause for not adopting the new spelling.¹

Ungnad's argument is based almost wholly upon the form *Am-mu-ra-PI* found on K 552, a letter published by Harper, *Letters*, 3, No. 255. On this name Ungnad has the following to say: 'Eine Assimilation oder sonst einen Grund weswegen *b* zu *p* geworden sein sollte, kann ich in dem Namen des Königs nicht entdecken. Wir werden demnach anzunehmen haben, das der Schreiber tatsächlich *Ammurapi* hörte oder sprach.'

But then the ancients at times show a deplorable disinclination to abide by the rules laid down in our Assyrian grammars. Perhaps the scribe made a mistake or was careless. Assyrian scribes could make mistakes and they could be careless. One of them wrote *ru-ku-pi-ja* for *ru-ku-bi-ja* (Sennacherib, Taylor Cylinder, 5. 80)—to mention the last example my eyes happened to rest upon. Or the scribe may have been a Babylonian. His signs are Babylonian, not Assyrian. In that case the *PI*-sign may have had a value other than *pi*. In view of such possibilities as these I have felt all along that Ungnad had failed to prove his case, and therefore, saw no reason for adopting his spelling. I believe we are now in a position to show that the spelling *Hammurapi* does not render the real pronunciation of the name any better than does *Hammurabi*, if as well.

The name *Hammurabi* was explained by a late Assyrian scribe as equivalent to *kimtu rapāštu* (*kim-ta ra-pa-aš-tum*) 'the wide-spread people,' *VR* 44. This etymology does not fall in line with Ungnad's conclusions, so the scribe is labeled 'der nicht sehr erfahrene Nameninterpret.' Neither does Professor Prince see any reason for taking the etymology seriously, *JBL* 29 (1910), p. 21 f. I agree with Ungnad that the scribe probably did not regard the element *rabi* as Babylonian, else he would have translated *kimtu rabitu*. Perhaps I am inclined to give the scribe too high a rating as a philologist, but if he pronounced it *rapi*, as Ungnad asserts he must have done, we ought to be able to find

¹ Even the proofreaders of the University of Chicago Press took advantage of the writer's absence from the city to correct his *Hammurabi* into *Hammurapi*, *AJSL* 33 (1917), p. 250 f.

some West-Semitic word which the scribe saw in *rapi* and which he supposed had the meaning *rapāštu* 'wide, numerous.' Evidently Ungnad did not think it worth while to attempt to do this.

We now know that the interest of scribes in personal names did not spring up in late Assyrian days, but goes back to the time of the First Dynasty and earlier. Dr. Chiera has recently published a syllabary and lists of personal names which were the work of the priest-professors and students of the Temple School at Nippur.² Besides Sumerian and Akkadian names these lists contain many which Chiera calls 'Amoritic.' We used to call them 'West-Semitic.' But the label is immaterial. Chiera pointed out some interesting variant spellings of Amoritic names (p. 37). Alongside of *di-PI-ir-a-bi* (*a-ḫi, mu-ti*) we find *di-BI-ir-a-bi* (etc.). Another name appears in these forms: *ar-pu* (or *bu*)-*um*, *ar-mu-e-um*, and *ar-wi(PI)-um*. Still another has the variant spellings *ar-mi-tum* and *ar-wi(PI)-tum*.

At first sight the *di-PI-ir* and *di-BI-ir* variants seem to bear out Ungnad's contention. But in the time of the First Dynasty of Babylon, the period from which these school-texts come, the *PI*-sign almost invariably had the value *w(a, i, u)*. *Dībir* is, therefore, not a variant of *dīpir* but of *dīwir*.³ These and the other variants given above show that besides the *PI*-sign the *bi*-, *pu* (or *bu*)-, *mu*-, and *mi*-signs were used to render a West-Semitic *w*.⁴

Is *Hammurabi* the Babylonian rendering of a West-Semitic name *Ammurawi*? If so, the scribe who wrote the name *AmmuraPI* probably pronounced it *Ammurawi*, not *Ammurapi*, and the main prop of Ungnad's argument falls to the ground.

² *Lists of Personal Names from the Temple School of Nippur* (nos. 1 and 2 published).

³ Chiera saw this. He also shows that we shall probably have to correct our reading of names beginning in *apil* (*abil*), usually translated 'son of,' and read instead *awil* 'man of.'

⁴ We know that the *w* was disappearing from the Babylonian language. In forms where it was retained the *PI*-sign came to be the ordinary sign used to reproduce it. That this usage was reached through a process of elimination is shown by the use of the *pu(bu)*-, *mi*-, and *mu*-signs. In course of time *awilum* became *amēlu*. Cf. *mu-um-ma-al-li-da-at*, of l. 4 of the Babylonian version of the Creation Epic. Note also that in the Code of Hammurabi we find the participle *bābil* and the noun *biblum*, which are derived from the root *wabālu*.

But the question of the etymology of the name still remains. At this point we must note the important variant *Ḫa-am-mu-ra-bi-iḫ*, found in a Mesopotamian document published by Johns in *PSBA* 29 (1907), p. 177, and the name *Ili-rabiḫ* of the Amarna Letters.⁵ Hommel compares the element *rabiḫ* 'wide' with the Arabic *rabāḥa*, *rabagha*, *rafāḥa*, *rafugha* (*OLZ* 1907, p. 485, n. 2). Ungnad reads *rapīḫ* and thinks of the Arabic ربيع or ربيع, but in view of the fact that neither of these roots has been found in West-Semitic names he does not care to press the matter of the etymology of this element of the name. There is smooth sailing if we assume that *rabiḫ* stood for the West-Semitic *rawiḫ*. The root 𐤒𐤐𐤕 *rawiḫ* has the general meaning 'to be airy, roomy, wide,' and *kimtu rapāstu* would then be a fair translation of the name Hammurabi.⁶ *HammuraBI* and *AmmuraPI* are variants, like *di-BI-ir-abi* and *di-PI-ir-abi*, of an Amorite name, the middle radical of whose second element was *w*. The disappearance of the *ḫ* in the Babylonian forms of the name causes no difficulty. Whether the first element of the name, *Ḫammu*, is to be taken as the equivalent of the West-Semitic 𐤍𐤕 'people, family,' as the Assyrian scribe believed, or as the epithet of a deity, as most modern scholars hold, cannot, I believe, be decided.⁷

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Assyrian lânu, 'aspect'—Arabic lâṇ, 'color'

In Assyrian we have a noun *lânu* 'aspect, form.' The Sumerian equivalent is *alam*, which is also explained by Assyrian *ṣalmu* 'image' and by *ṣalâlu* 'to lie down' (cf. *SGL* 9; 196, l. 7; 206, nu ii). Assyrian *lânu* is a synonym of *igaru* (= *ḫigaru*

⁵ See Knudtzon, *Die El-Amarna Tafeln*, index, p. 1563.

⁶ Hommel's *rabiḫ* also has the meaning 'wide,' but if we start with this we cannot account for the *Babylonian* variants, *raBI* and *raPI*. The Amraphel of Gen. 14 is of no more value in the determination of the pronunciation of Hammurabi than is the Asnapper of Ezra 4. 10 for that of Ashurbanipal.

⁷ For the literature on the different attempts to interpret this name see Tallqvist, *Assyrian Personal Names*, p. 84.

'enclosure, wall' (cf. *SGL* 26, 49, 192, 274). *HW* 382^a separates *lānu* 'enclosure' from *lānu* 'aspect, form, frame.' We call an enclosing border (French *cadre* = Latin *quadrum* 'square') a *frame* and *frame* denotes also 'form, structure.' In *NE* 136. 60 we have *lān-pāni* 'forecastle' (lit. 'enclosure of the front') = French *gaillard d'avant*, German *Back*, i. e. the place in the eyes of a ship where the seamen live. Another synonym of *lānu* is *zīmu*, which signifies originally 'bloom,' then especially 'rosy hue of the cheeks.' It has passed into Aramaic as *zīyā* (Dan. 5. 6, 9, 10; 7. 28), but corresponds to the Arabic *zahū*, from *zāhā*, *zāhū* 'to bloom, flourish.'

Just as *bāt* 'he passed the night' (Dan. 6. 19) means originally 'he housed' (German *er hauste*), as a denominative verb derived from *baṭ* 'house' (which is connected with the preposition *bē* 'in' and the verb *bā* 'he entered,' lit. 'he inned'; see *AJSL* 22. 259), so Hebrew *lān* 'he spent the night' is derived from a noun corresponding to Assyrian *lānu* 'enclosure' (contrast *GB*¹⁶ 385^b). It means originally 'he made an enclosure' (Heb. *ṭirā*; cf. *GB*¹⁶ 276^a; Delitzsch, *Jes.*³ 705; *BL* 119). In the Sūdān and the adjoining regions a fenced camp or enclosure for the protection of the animals of a caravan during the night is called *zareeba*; for the original meaning of this term see my remarks in *AJSL* 32. 66.

As to the connection between *lānu* 'aspect' and *lānu* 'enclosure,' we may compare our *complexion*, which denotes 'aspect, general appearance,' but especially 'color of the face' (French *teint*), although it is derived from Latin *complecti* 'to encompass.' This shows that Assyrian *lānu* is identical with Arabic *lāṇ* 'color, form, aspect, species' (cf. Ethiopic *qāl* = *qāṣal*, for Arabic *qāṣal*). Dr. Ember identifies Arabic *lāṇ* = Assyrian *lānu* with Egyptian *'yn* (𓂏𓂐) 'color,' Coptic EINE 'image, form.' For the semantic connection between *species* and *enclosure* we may compare the Latin phrase *omnia una comprehensione complecti*. Arabic *sāhnah* (or *sahnā*) means 'exterior, figure, form, complexion,' while Syriac *sēhāntā* denotes 'good complexion, beautiful natural color,' and Ethiopic *senhāt* signifies 'a bald head' (lit. 'smooth,' cf. Heb. *ḥalāq*, Gen. 27. 11). German *Glatze* is connected with *gleissen* 'to glisten'; Middle High German *glitze* means both 'gloss' and 'baldness.' Arabic *sāhana* signifies 'to break, bray, triturate, grind, smoothe' (syn.







kásara, dálaka, sáhaqa, dá'aka, mārása, mārata). Trituration of pigments renders them smooth; cf. my remarks on Sumerian *daggas* 'mineral pigments' (lit. 'ground stone'), which appears in Arabic as *daqš, raqš, niqš, nigs* (OLZ 16. 498; 17. 53, n. 5). Arabic *niqš* means 'figure, picture' and 'pigment, color' (cf. *naqīš* 'image, likeness'). Middle High German *lich* was used not only for 'dead body' (German *Leiche*; cf. Eng. *likewake, lichwake, lichway, lichgate*), but also for 'body, color of the skin, hue of the face, complexion, form, figure, appearance, aspect.' Our *hue* meant originally not only 'color,' but also 'appearance, form,' and just as Hebrew *malōn* denotes 'lodging-place,' while Assyrian *lānu* means 'aspect,' so we have *habitation* 'place of abode' and *habitus* 'general appearance,' both derived from Latin *habere*.

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The Reading of GIŠ-ŪH^{ki}

A number of monuments from ancient Babylonia of the early period, such as the Stele of Vultures, the cone and net-cylinder of Entemena, the vase of Lugal-zag-gi-si, and the clay tablet of Uru-ka-gi-na tell us of an important city whose name was expressed by the ideogram *GIŠ-ŪH^{ki}*, also transliterated *GIŠ-ĪŪ^{ki}*, the true reading of which was in doubt. In spite of the confidence with which some, notably Contenau in the introduction to his *Contribution à l'histoire économique d'Umma*, have recently read the ideogram *Umma*, that reading was by no means certain.

In a syllabary belonging to the British Museum and published in Rawlinson V, col. 1. 4, the reading for *GIŠ-ŪH^{ki}* seemed to the copyist, Dr. T. G. Pinches, to be perhaps *šit-ma*. In CT 12. 28. 4, Dr. R. C. Thompson, in 1901, gave the following for the equivalent:  . Meissner copied the text thus:   (see ZA 20. 423), for which in his *Seltene Ideogramme*, no. 8539, he offered *um*(? oder *al*)-*ma* as the reading. In 1915, Dr. Pinches re-examined the tablet just before he published the Behrens Collection, and says the signs seem to be  , which he thinks might be read *šir-ma*. At the same time he gave up a previous reading *il-ma*. On the whole he admits that *um-ma* may be correct. In this connection he also makes the interesting suggestion

that the modern Arabic Jokha may be a corruption of the ancient *GIŠ-ŪḪ*.

In the writer's collection there is a small tablet which puts the reading *Um-ma* beyond any further doubt. It consists of unbaked, light-brown clay. The left border of the obverse is worn down. Everything of importance on the tablet, however, except the first sign of the sixth line is well preserved. That sign, which occurs before the city name, *Um-ma^{ki}*, is almost certainly *shàg* or *shà*, meaning 'at' or 'in.'

The contents of the tablet relate to three consignments of grain, one of which Ur-nun-gal received, another Ningirsu-nishag, the remainder being left in Umma. In the first line of the reverse the sign *kab* before *kišib* is new to the writer. In this connection very likely it means 'stamped' by the seal of A-ab-ba. Whether the sign following the name is a compound of *bi* and *diš* meaning 'his first,' or whether it is intended for *šim*, a title, or is a new sign altogether, the writer is unable to say. A tentative translation of the tablet follows:—

'1 gur 150 qa of wheat, royal (measure), Ur^d Nun-gal; 1 gur 150 qa of wheat, ^dNin-gir-su-ni-shag; 1 gur 150 qa surplus in Umma. Aabba struck his first seal [?].

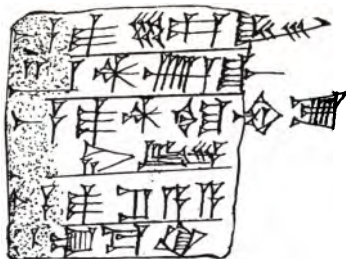
From the month Maš-azag-kú to the month A-ki-ti, six months; the year the wall of the land was built.'

JAMES B. NIES

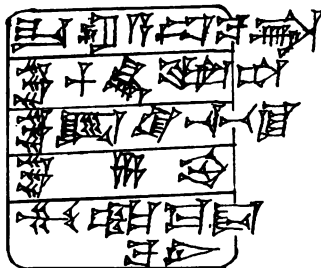
Brooklyn, N. Y.



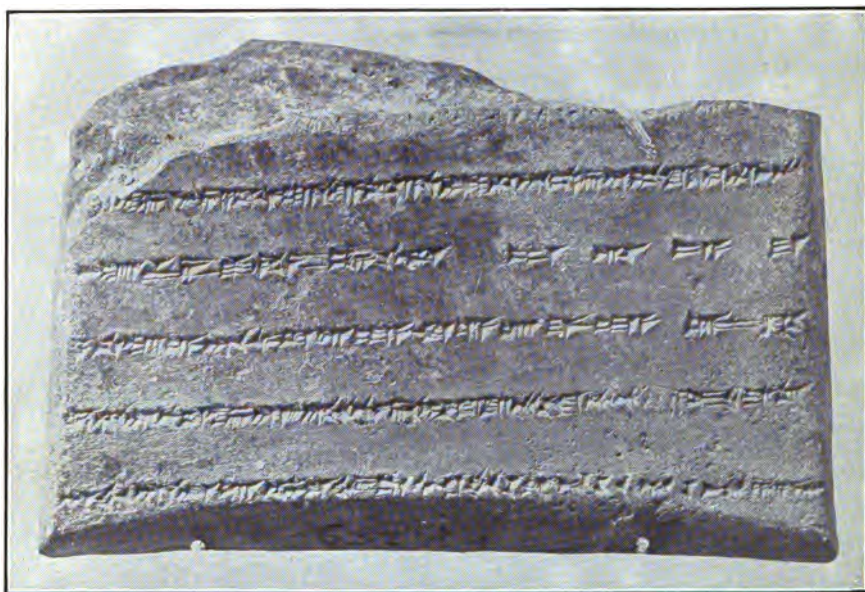
OBVERSE



REVERSE



TABLET FROM DREHEM DATED IN THE REIGN OF DUNGI, KING OF UR
(See Nies, 'The Reading of GIŠ-ÚĦki')



REVERSE OF TABLET K259 OF THE KUYOUNJIK COLLECTION,
BRITISH MUSEUM
(See von Oefele, 'Babylonian Titles of Medical Textbooks')

THE KASHMIRIAN ATHARVA-VEDA, BOOK FIVE

EDITED WITH CRITICAL NOTES

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TRINITY COLLEGE, HARTFORD, CONN.

INTRODUCTION

In editing this fifth book of the Kashmirian Atharva-Veda little change has been made from the method of presentation used in the first four books (published in vols. 26, 30, 32, and 35 of this JOURNAL). The transliteration (in italics) is not given line for line, but is continuous, with the number of each line in brackets; the method is familiar, and there should be no difficulty in comparing any passage with the facsimile. The results attained here fall short of my hopes: but in dealing with new material given to us in such condition as in this ms. it seems inevitable that the results will be uncertain and all too often unsatisfactory. As soon as circumstances will permit Book 19 will be published; it contains a large amount of the material given by Ś. in its Book 6 and Book 7.

The abbreviations employed are the usual ones, except that 'Ś' is used to refer to the AV. of the Śāunakiya School, and 'ms.' (sic) is used for manuscript. The signs of punctuation used in the ms. are fairly represented by the vertical bar (= colon) and the 'z' (= period); the Roman period is used for *virāma*; daggers indicate a corrupt reading.

Of the ms.—This fifth book in the Kashmir ms. begins f.74b l.17 and ends f.90a l.8—a little more than 15 folios. Wrong numbers are affixed to f.85 and f.86, but the facsimile gives these folios in the proper sequence for the text: i. e. f.86ab following f.84b, then f.85ab, then f.87a. None of these folios are defaced; most of the pages have 18 or 19 lines, only 6 having 17.

Punctuation, numbers, etc.—Within the individual hymns punctuation is most irregular; only three accent marks appear, in st. 1 of no. 40. The hymns are grouped in *anuvākas*, of

which there are 8 with 5 hymns in each: anu. 4 no. 2 has no number after it, anu. 8 no. 2 is numbered 1, and anu. 8 is numbered 5. There are some corrections, both marginal and inter-linear, usually consisting of 2 or 3 letters.

Extent of the book.—The book is made up of 40 hymns of which 2 are prose and at least one other is partly prose. The normal number of stanzas in a hymn is 8: 21 hymns have 8 stanzas each and not one has less. Assuming the correctness of the verse-divisions of the text as edited below we may make the following table:—

21	hymns	have	8	stanzas	each	=	168	stanzas
10	"	"	9	"	"	=	90	"
4	"	"	10	"	"	=	40	"
1	"	"	11	"	"	=	11	"
1	"	"	12	"	"	=	12	"
2	"	"	14	"	"	=	28	"
1	seems to have	9	stanzas			=	9	"
<hr/>							<hr/>	
40	hymns	have					358	stanzas.

New and old material.—There are 25 hymns in this book which may fairly be called new, although material already familiar in other texts enters to some extent into the structure of some of them. The number of stanzas which are essentially new seems to be 203; the pādas which do not appear in the *Concordance* are approximately 775 in number.

Of the 31 hymns which constitute Ś. 5 only one appears here, but 8 of the hymns of Ś. 4 appear here: there are here also 2 hymns of Ś. 3, and 4 of Ś. 6 (3 of these are combined into one hymn here). Two hymns of RV. appear here: a passage of MS. is given here with some variants, and several stanzas of Tāittiriya texts appear. A group of three verses quoted by Vāit. are part of a hymn given here; and another group of three verses quoted by Kāuś. appear in another hymn here. Other correspondences are insignificant.

ATHARVA-VEDA PĀIPPALĀDA-ŚĀKHĀ

BOOK FIVE

1

[f.74b17] *atha pañcamāṣ kāṇḍā likhyate* z z [18] *om̐ namo gaṇeśāya z om̐ namo jvālābhagavatyāḥ* z z

[f.75a1] *om̐ namaṣ piśaṅgabāhvāi sindhujātāyā ugrāyāi yo sye nameta kanad aped a[2]sya grhād ayat. | apehi no grhebhyo pehi vatsatambhyā ātmānam atra roci[3]t savaroham ahā naśa | hāmba sūtale tho vāi sā ma śamttama | putro yas te pr̥ṣṇi-[4]bāhus tama tvaṁ śāsanam kṛdhi | atho duhitaram naptr̥ip atho tvaṁ sāmānā bha[5]bhava bhūtapatir nir ajātv indrah cetis sadānvā | grhasya vudhnāsina tā va[6]jrenādhi tiṣṭhatu | apete-tis sadānvāhiṁsantir imam grham | dhenur vā[7]tra sthāmy asaty anaḍvān vedayā saha | yas sahamānaś carasi sāsahā-[8]nāiva ṛṣabha | sadānvāghnam tvā vyaṁ jāitrāyātsāvādāmasi | sa[9]hasvino bhimātiham sahasva pr̥tanāyataḥ | sahasva sarvā rakṣāṁsi [10] sahasānāsy oṣadhe tvaṁ vyāghrān sahame tvaṁ syahvān ubhayāduta | ma[11]kṣaś cīta kṛṇvānā madhu tvaṁ sahasvauṣadhe z 1 z*

For the introductory phrase and the invocation read: *atha pañcamāṣ kāṇḍo likhyate z z om̐ namo gaṇeśāya z om̐ namo jvālābhagavatyāi z*

For the hymn read: *om̐ namaṣ piśaṅgabāhvāi sindhujātāyā ugrāyāi | yo 'syāi nama id akarad aped asya grhād ayat z 1 z apehi no grhebhyo 'pehi vatsatantyāḥ | †ātmānam atra rocit savaroham †iha naśa | †hāmba sutale 'tho vāi sā me śamttamā z 2 z putro yas te pr̥ṣṇibāhus tam u tvaṁ śāsanam kṛdhi | atho duhitaram naptr̥im atho tvaṁ śāsanā bhava z 3 z bhūtapatir nir ajatv indrah cetis sadānvāḥ | grhasya budhna āsinās tā vajrenādhi tiṣṭhatu z 4 z apete-tis sadānvā ahiṁsantir imam grham | dhenur vātra sthāmny asaty anaḍvān vedayā saha z 5 z yas sahamānaś carasi sāsahāna iva ṛṣabhaḥ | sadānvāghnam tvā vyaṁ jāitrāyācchāvādāmasi z 6 z sahasva no 'bhimātiṁ sahasva pr̥tanāyataḥ | sahasva sarvā rakṣāṁsi sahasānāsy oṣadhe z 7 z tvaṁ vyāghrān sahase tvaṁ siṁhān ubhayādutaḥ | sakṣaś cetis kṛṇvānā madhu tvaṁ sahasvauṣadhe z 8 z 1 z*

There is much uncertainty here, the most serious difficulty lying in st. 2; its first hemistich, however, seems good as given. In 2c ya ātmānam might seem good, and iha naśa is probably correct for the end of pāda d: I strongly incline to think that syllables have been lost before hāmba, perhaps enough to make a complete stanza ending with śāntamā. RV. 8. 63. 8a is sā te agne śāntamā. In st. 3 śāsanam (and śāsanā) is suggested as being more in harmony with the import of the rest of the hymn. In st. 5a sthāpyāsaty might be read.

Our st. 4 = Ś. 2. 14. 4; our 6ab = Ś. 3. 6. 4ab, and Ppp. 6. 8. 3ab varies only slightly; our 7ab = Ś. 19. 32. 6ab.

2

(Ś. 4. 1)

[f.75a12] yaṁ pitre rāṣṭrayaty agre prathamāya januṣe bhūminaṣṭhāu tasmā etaṁ su[13]ruca hvāram ahyam gharman śrīvantu prathamassu dhāsyuḥ vrahmā jajñā[14]nam prathamam purastād vi śīmatas suruco vena āvaḥ sa vudvyā upa-[15]māmsa viṣṭhā sataś ca yonim asataś ca vi vaḥ z prā yo jajñe vi[16]dvā asya bandhum viśvām devā janimā vivakti vrahmaṇa uj jabhā[17]ra madhyān nicād uscā svadhayābhi pra tasthāu | mahān mahi a[f.75b1]skabhāyad vi jāto dyām jitāḥ pārthivam ca rajah sa vudhnyārāṣṭra janu[2]ṣābhy akraṇ vṛhaspatir devatā tasya samrāt. | nūnam tasya gavyo hanoti ma[3]ho devasya pūrvasya pahi | eṣa jajñe bahubhismākam itthā pūrvād a[4]rād aviduraś casahnūḥ sa hi divas sa hi prthivyā rcesthā mayi kṣā[5]mam bhrajaś viśkabhāyati | āryaś chukram jyotiṣo dhanistādādhā bhyamanto vi [6]vasantv aripṛā | yathā vātharvā pītaram viśvadevam vṛhaspatir manasā [7]vo datsva | tvam viśvasya januṣyā dhatusyāgre kavir devān adhabhāyus svadhā-[8]va | mūrdhnā yo agram abhyarty ojasā vṛhaspatirmā vivāsanti devāḥ [9]bhinnad balan vimṛdardarīti kanikradati gā svar apo jighāya z [10]z z z

In the top margin at the right stands ndhā and over that sām.

Read: iyaṁ pitre rāṣṭry ety agre prathamāya januṣe bhūmanesthāh | tasmā etaṁ surucaṁ hvāram ahyam gharman śrīvantu prathamasya dhāseḥ z 1 z vrahma jajñānam prathamam purastād vi śīmatas suruco vena āvaḥ | sa budhnyā upamā asya viṣṭhāḥ sataś ca yonim asataś ca vi vaḥ z 2 z pra yo jajñe vidvān

asya bandhum viśvā devānām janimā vivakti | vrahma vrahmaṇa
uj jabhāra madhyān nīcād uccā svadhayābhi pra tasthāu z 3 z
mahān mahī askabhāyad vi jāto dyām dvitā pārthivam ca rajah |
sa budhnyād āṣṭa januṣābhy agram vṛhaspatir devatā tasya
samrāt z 4 z nūnam tad asya kāvyo hinoti maho devasya pūrva-
sya mahī | eṣa jajñe bahubhis sākam itthā pūrvād arād avidūrāt
sasan nu z 5 z sa hi divas sa hi prthivyā r̥teṣṭhās sa hi
kṣāman bhrājasi viṣkabhāyati | ahar yac chukraṁ jyotiṣo jani-
ṣṭhāthā dyumanto vi vasantv aripṛāh z 6 z yathā vātharvā pitaraṁ
viśvadevaṁ vṛhaspatir manasāva ca gacchat | tvaṁ viśvasya
januṣo dhātāsy agre kavir devo adabhāyus svadhāvān z 7 z
mūrdhnā yo agram abhyarty ojasā vṛhaspatim ā vivāsanti devāḥ
| bhinad valaṁ vimṛdho dardarīti kanikradat svar apo jigāya
z 8 z 2 z

In st. 1 I have followed closely ŚSS. and ASS. for the first hemistich and for the end of pāda d; śṛṇvantu as in our ms. hardly seems possible. The reading of st. 3 and 4 here agrees with KS. 10. 13 and almost with TS. 2. 3. 14. 6. In st. 6 r̥jīṣṭhas might be considered instead of r̥teṣṭhās. In st. 7b it seems necessary to approximate the reading of Ś; in 7d adabhāyus seems to be a proper formation, and I incline to think that devān as in the ms. might stand ahead of it. Our st. 8 appears (with variants) elsewhere only in TS. 2. 3. 14. 6; in pāda d gā seems to be an intrusion due to association with krand, though we might keep it and read the pāda kanikrad abhi gās svar apo jigāya.

3

[f.75b10] ud apaptad asāu sūryaṣ puradr̥ṣṭo adr̥ṣṭahā | udāyaṁ
ra[11]śmibhruvaṁtūdāyaṁ rasān akah nimratat asāu sūryo
viśvadr̥ṣṭo adr̥[12]ṣṭahā | nimrocaṁ raśmibhavantu nimrocaṁ
rasān akah | ye ca dr̥ṣṭā ye cādr̥[13]ṣṭā ubha ye vihyavaḥ teṣāṁ
vo agrabhaṁ nāma sarve sākam ni jasyaca | adr̥[14]ṣṭahananī
vīrud asi tāujā viśāsahi | cyukākāṇi tvaṁ jajñīṣe [15] sād̥r̥ṣṭān
jātaso hi | jahi jyeṣṭham adr̥ṣṭānām sarpānām moghacārī-[16]
nām. kṛmīnām sarvajātāni pāuñjastī yavayaṁ sṛṇā | yaś ca
to[17]do yaś ca sarpo yaś cādr̥ṣṭas ca yo vṛṣā | cyukākāṇi tvaṁ
tān vṛsci vṛkṣaṁ [18] paraśumān iva | saṁvṛścīnānś cukākaṇir
vṛkṣaṁ paraśumān iva | [f.76a1] saṁvṛścīnānś cukākaṇir
vakṣaṁ paraśumān iva | kṛmīnām sarvajātāni sa[2]ndahāgnir

*ivolapam metiṣṭhāgnir akhalas tviṣimān krmīnām jātā[3]ni
prtānotu sarvā | vṛhaspatir medinī jātavedā adrṣṭān hantu
drṣa[4]deva sākham z 2 z*

Read: ud apaptad asāu sūryaṣ purudrṣṭo adrṣṭahā | udāyan
raśmibhir hantūdāyan rasān akaḥ z 1 z ny amrocaḥ asāu sūryo
viśvadrṣṭo adrṣṭahā | nimrocan raśmibhir hantu nimrocan rasān
akaḥ z 2 z ye ca drṣṭā ye cādrṣṭā uta ye 'viṣyavaḥ | teṣām vo
agrabhaṁ nāma sarve sākam ni jasyata z 3 z adrṣṭahananī vīrud
asi bhojyā viśāsahih | cyukākani tvaṁ jajñiṣe sādṛṣṭān jambhaya
hi z 4 z jahi jyeṣṭham adrṣṭānām sarpānām moghacāriṇām |
krimīnām sarvajātāni puñjīṣṭhāny avayan śrṇa z 5 z yaś ca todo
yaś ca sarpo yaś cādrṣṭaś ca yo drṣṭaḥ | cyukākani tvaṁ tān
vraścīr vṛkṣam paraśumān iva z 6 z saṁvṛścāinānś cyukākani
vṛkṣam paraśumān iva | krimīnām sarvajātāni sandahāgnir
ivolapam z 7 z methiṣṭhā agnir akhilas tviṣimān krimīnām
jātāni prtanyatu sarvā | vṛhaspatir medinī jātavedā adrṣṭān
hantu drṣadeva sākam z 8 z 3 z

The end of the first two stanzas does not seem quite right;
nāśanam would give a better meaning. The word cyukākani
seems to be new; it is evidently a plant name with kaṇa as part
of the compound. In 6b vṛṣā, as in the ms., seems utterly
discordant.

For the first three stanzas cf. RV. 1. 191. 7-9 and Ś. 2. 32.

4

(Ś. 5. 3)

[f.76a4] *samāgne varco vihaveṣv astu vayan tvendhānās
ta[5]nvaṁ puṣema | mahyaṁ namantām pradīśaś catasras
tvayādhyakṣeṇa prtānā jaye[6]ma | agne manyuṁ pratinudaṁ
pareṣām tvaṁ no gopāṣ pari pāhi viśvataḥ | apān[7]co yaṁtu
pravudhā durasyavo mamīśā cittam bahudhā vi naśyatu | mama
devā [8] vihave santu sarva indravatto maruto viṣṇur agniḥ
mamāntarīkṣam urulo[9]kam astu mahyaṁ vātaḥ pavatām kāme
asmin. mahyaṁ yajantām sama yā[10]nīgnākūtis satyā manaso
me astu | yono mā ni gām katamaś canahaṁ [11] viśve devā abhi
rakṣantu mām iha | mahyaṁ devā dravinam ā yaja[12]ntā
samāśīr astu mama devahūtiḥ dāivā hotāras sanīśam na eta[13]r
ariṣṭā syāma tanvās suvīrāḥ devīḥ ṣaḍ urvīr anuras karā | tha
vi[14]viśve devāssa iha mādayadhvaṁ mā hasmahi prajayā mā*

dhanena mā [15] dadhāma dbhiṣate soma rājan. uruvyacā no mahiṣaś śarma yaścha[16]d asmin vāte puruhutaṣ purukṣas sa naḥ | prajāyāi haryasva mṛdaye[17]ndu mā no rīriṣo mā parā dāḥ | dhātā vidhartā bhuvanasya yas pati[18]s savitā devo bhīmātiṣāhaḥ vṛhaspatir indrāgnī aśvino[f.76b1]bhā devaṣ pāntu yajamānaṁ nirṛthā yāhavāncam ati hvayār indraṁ [2] jāitrāya jetave asmākam astu varṇa yataṣ kṛnotu vīryaṁ | arvā[3]ñcam indram avatam havāmahe yo gojid dhanajid aśvajid yaḥ imaṁ [4] no yajñam vihave juṣasvāsmākam kṛṇvo harivo medīnaṁ tvā | trā[5]tāram indram avatāram indraṁ have-have suhavaṁ sūram indraṁ kuvema [6] śakraṁ puruhūtam indraṁ svaste no maghavān u pātu indraḥ tisor devī[7]r mahi me śarma yaṁ prajāyāi me tanva yaś ca puṣṭaṁ | mām viṣas saṁma[8]naso juṣantām pitryaṁ kṣattram pṛta jānātū asmāt. yo naś cakrābhi[9]manyunendramittro hi jighāṁsati | taṁ tvaṁ vṛttrahaṁ jahi vas sa [10] smabhyam ā bhara | ye naś śapaṁty upa te bhavaṁtv indrāgnībhyāṁm apa bā[11]dhāma yonim. ādityā rudrā upariṣṛso mām ugraṁ cettā[12]ram adhirājam akran. z 4 z

Read: mamāgne varco vihaveṣv astu vāyaṁ tvendhānās tanvaṁ puṣema | mahyaṁ namantām pradiśaś catasras tvayādhyakṣeṇa pṛtanā jayema z 1 z agne manyuṁ pratinudan paresām tvaṁ no gopāṣ pari pāhi viśvataḥ | apāñco yantu prabudhā durasyavo 'māiṣāṁ cittam bahudhā vi naśyatu z 2 z mama devā vihave santu sarva indravanto maruto viṣṇur agniḥ | mamāntarikṣam urulokam astu mahyaṁ vātaḥ pavatām kāme asmin z 3 z mahyaṁ yajantām mama yāniṣṭākūtis satyā manaso me astu | eno mā ni gām katamac canāhaṁ viśve devā abhi rakṣantu mām iha z 4 z mahyaṁ devā draviṇam ā yajantām mamāśīr astu mama devahūtiḥ | dāivā hotāras sanisan na etad ariṣṭāḥ syāma tanvās suvīrāḥ z 5 z devīḥ ṣaḍ urvīr uru naś karātha viśve devāsa iha mādayadhvam | mā hasmahi prajāyā mā dhanena mā radhāma dviṣate soma rājan z 6 z uruvyacā no mahiṣaś śarma yacchaḍ asmin have puruhūtaṣ purukṣuḥ | sa naḥ prajāyāi haryasva mṛdayendra mā no rīriṣo mā parā dāḥ z 7 z dhatā vidhartā bhuvanasya yas patis savitā devo 'bhīmātiṣāhaḥ | vṛhaspatir indrāgnī aśvinobhā devaṣ pāntu yajamānaṁ nirṛthāt z 8 z ihārvāncam ati hvaya indraṁ jāitrāya jetave | asmākam astu varṇo yataṣ kṛnotu vīryam z 9 z arvāñcam indram avāñcam havāmahe yo gojid dhanajid aśvajid yaḥ | imaṁ no

yajñam vihave juṣasvāsmākam kṛṇmo harivo medinam tvā z 10
 z trātāram indram avitāram indram have-have suhavam sūram
 indram | huvema śakraṁ puruhūtam indram svasti no magha-
 vān u pātv indrah z 11 z tistro devīr mahi me śarma yacchan
 prajāyāi me tanve yac ca puṣtam | mām viśas saṁmanaso
 juṣantām pitryam kṣatram prati jānātv tasmāt z 12 z yo naś
 śakrābhimanynendrāmitro hi jighāṁsati | tam tvaṁ vrtrahañ
 jahi śavas so 'smabhyam ā bhara z 13 z ye naś śapanty apa te
 bhavantv indrāgnibhyām apa bādhāma enān | ādityā rudrā
 upariśprso mām ugram cettāram adhirājam akran z 14 z 4 z

The ms. corrects to dv(iṣate) in 6 d.

In 2d and 4a we seem to have only graphic errors, and I have given the readings of Ś; again in 7b vāte of our ms. seems impossible and I have read with Ś. TB. 2. 4. 3. 2 has our st. 9 with kevalah for varṇo and without pāda d. In 10a by reading avāncam I have kept close to the ms. Our st. 11 = Ś. 7. 86. 1. In our 14a Ś and other texts have ye naḥ sapatnā °; our form is perhaps too recent to be a real variant.

5

(cf. MS. 2. 13. 15)

[f.76b12] *prthivī vaśā sū a[13]gnīm garbham ca dadhe so
 mām pāhi tasyāi te vidheyam tasyāi te namas ta[14]syāi te svāhā
 | antarikṣam vaśā sū vāyurṁ garbham dadhe dyāur vaśā [15] sū
 sū sūryam garbham ṛg vaśā sū sāmā garbham viḍ vaśā sū kṣattri-
 [16]yam garbham | dakṣiṇā vaśā sū yajñiyam garbham vāg vaśā
 sū pa[17]rameṣṭhinam garbham | vaśā vaśā sū rājanyam garbham
 samā vaśā sū[18]samvatsaram garbham dadhe | so mām pāhi
 tasyāi te vidheyam tasyāi te nama[f.77a1]s tasyāi te svāhā z 5 z
 anu 1 z*

Read: *prthivī vaśā sāgnīm garbham dadhe | so mām pāhi
 tasyāi te vidheyam tasyāi te namas tasyāi te svāhā z 1 z antari-
 kṣam vaśā sū vāyurṁ garbham dadhe | so ° ° ° ° z 2 z
 dyāur vaśā sū sūryam garbham dadhe | so ° ° ° ° z 3 z ṛg
 vaśā sū sāmā garbham dadhe | so ° ° ° ° z 4 z viḍ vaśā sū
 kṣatriyam garbham dadhe | so ° ° ° ° z 5 z dakṣiṇā vaśā sū
 yajñiyam garbham dadhe | so ° ° ° ° z 6 z vāg vaśā sū
 parameṣṭhinam garbham dadhe | so ° ° ° ° z 7 z vaśā vaśā
 sū rājanyam garbham dadhe | so ° ° ° ° z 8 z samā vaśā sū*

saṁvatsaram garbham dadhe | so mām pāhi tasyāi te vidheyam
tasyāi te namas tasyāi te svāhā z 9 z 5 z anu 1 z

6

[f.77a1] *sapta sūryā divam anupravi[2]ṣṭās tān pathevānv
ayatu dakṣiṇāvān tasmāi sarve gṛtam ātapantūrjam [3] duhā-
nānapasphurantā*

This stanza appears TA. 1. 7. 4. In b read tān and etu
dakṣiṇāvān: in c te 'smāi, in d duhānā anapasphurantaḥ.

*ātapān kṣīdanīyā ca savyādhi niṣṭapaṇ adhā[4]yat tapattra
sūrya udayad vṛhatīr anu |*

For pādas ab a probable reading is ātapān kṣīradanīyā yā ca
savyādhi niṣṭapaṇ; in c we may read tapatu.

*āt pitā pitṛn vidma damvūn i[5]niṣṭastā vayan guhāyan ye
sūryā svadhām anu carantu te |*

Pāda a lacks a syllable, so I would read āyat pitā; the ms.
corrects damvūn to dasyūn, but I incline to think that śamyūn
would be better; I can make nothing out of the pāda. For cd I
think we may read guhā āyan ye sūryās svadhām anu carantu te.

*dyāus sa[6]tervevarāṇ janāsaḥ pañca tye puro divā kṣiyanti
| tān vrahma de[7]vaṁ vṛhad ā viveśa tān praveda pracaram
adhīryatā |*

In pāda a only janāsaḥ is clear to me; in b read diva ā
kṣiyanti. In c read dāivaṁ; in d pracuram adhīryata might
be possible.

*yo dadāti [8] yo yajate yaṁ dhīnāś śraddhadhāno dhatte |
yamo vāivasvatānu rājā [9] sarvān ukṣatu savadhīh |*

In b read yo dīnāś; I think yo is better than yaṁ. In c read
°vato anu; at the end of d I would suggest śavadhīh.

*sā vidhaṇ paryāyaṇo yo dakṣiṇā[10]ṣ pari muṣṇanti dhattam
| sugaṇa tān pathā sarvān yamo rājāti [11] nayaṣat. |*

For a read mā vidhaṇ paryāyīṇo, in b ye 'dakṣ° and dhātum:
in c read saganān tān, in d neṣat.

*yena pathā vāivasvato yamo rājā yayū | agnir nas te[12]na
netu prajānan vāīśvanaraṣ pathikṛd viśvagrṣṭīh |*

In b read yayāu, in c nayatu, in d vāīśvānaraṣ.

*nahi jyo[13]tin nihata martyeṣu ena devāso atarann arāti |
tenemam setum ati [14] geṣma sarve vāiśvānaram jyotir amīha
devāh |*

In a read jyotir nihitam martyeṣu, in b yena and arātīn.

*ud vayan tamasas pari jyo[15]tiṣ paśyanta uttaram | devam
devatrā sūryam aganma jyotir uttaram |*

In a read vayan, in b and in d uttaram. This is Ś. 7. 53. 7.

*āroko[16]bhrājaṣ pabāraṣ pataṅgas svarṇaro jyotiṣimān
vibhāsa tasmāi sa[17]rve ghr̥tam ātapatorjam duhānānapa-
sphurantaḥ z 1 z*

Read: ārogobhrājaṣ paṭaraṣ pataṅgas svarṇaro jyotiṣimān
vibhāsah | te asmāi sarve ghr̥tam ātapantūrjam duhānā anapa-
sphurantaḥ z 10 z 1 z

This stanza appears TA. 1. 7. 1.

7

(Ś. 4. 15)

[f.77a17] *sam utpata[f.77b1]ntu pradiśo nabhasvatī sapa-
trāṇi vātajūtāni yanti | mārṣabhasya nudato na[2]bhasvato
vāmrāpha pr̥thivīm tarṣayantu | samikṣad viśvag vāto napānsy
apām [3] vegāsah | pr̥thag utpatantu | varṣasya svargā māyantu
bhūmim pr̥thag jāya[4]ntām oṣadhayo viśvārūpāḥ abhi kranda
stanayāndayodadhīm bhūmim parja[5]nya payasā samagdhi |
tayā varṣam bahulam eta sṛṣṭas āmāreṣi krama[6]guleyatasthān
| udīrayata marutas samudratas tveṣārkāna | bhūtāpāta[7]yantu
| pravarsayanti tamīṣā sudānavo pām rasir oṣadhī sacantām | [8]
gaṇās topa gāyantu mārutāḥ parjanyaḥ ghoṣiṇaḥ pr̥thak. | svargā
[9] varṣasya varṣatus sṛjantu pr̥thivīm anu | sam avantu sadā-
navotsāja[10]garā uta | vātā varṣasya varṣatuḥ pravahantu
pr̥thivīm anu | vāto [11] vidyud abhraṁ varṣam samavaṇ sudhā-
navah prā pyāyasva pra pitṛsya mām bhū[12]mim payasā sṛja
| apām agnis tanūbhis samvidāno ya odhīnām a[13]dhipo
babbhūva | sa no varṣam vāimutām jātavedaḥ prāṇam prāṇam
prajābhyo a[14]mṛtaṁ divas pari | om̐ prāṇam prajābhyo
amṛtaṁ divas pari | āmā[15]m āsām vi dyotatām vātāvāntu diśo
diśah marudbhis̥ pratyutā [16] meghā varṣantu pr̥thivīm anu |
prajāpatis salilād ā samudrād ā[17]pīrayamn̐ idadhīm ardayātī
| prāpyāyatām viṣṇo śvasya neto | arvā[18]ñ etena stanayitnu-
nehy apo niṣiñcan asuraḥ pitā nah svasantu ga[19]rgarāpām ava*

*nīcīr apa sṛja vantu pṛṣṇibāhavo māṇḍūkā r[f.78a1]nānu |
 samvatsaram śaśayānā vrahmanā vratacārīṇaḥ | vātaṁ parjanya-
 [2]jinvatām. | pra māṇḍūkā avādiṣuḥ upapravada maṇḍūki
 varṣam ā [3] vada tāndhuri | madhye hradasya plavasva vigrhya
 caturaṣ padaḥ mahantaṁ ko[4]śam utajābhi śiñca savidyutaṁ
 bhavati vātu vātaḥ tanvatām yajñam bahu[5]dhā viśṛṣṭam
 ānirdinīr oṣadhayo bhavantu z 2 z*

Read: sam utpatantu pradiśo nabhasvatīḥ sam abhrāṇi vāta-
 jūtāni yantu | maharṣabhasya nadato nabhasvato vāsrā āpaḥ
 pṛthivīm tarpayantu z 1 z samīkṣayad viśvag vāto nabhāṅsy
 apām vegāsah pṛthag utpatantu | varṣasya sargā mahayantu
 bhūmīm pṛthag jāyantām oṣadhayo viśvarūpāḥ z 2 z abhi kranda
 stanayārdadayodadhim bhūmīm parjanya payasā samañdhi |
 tvayā varṣam bahulam etu sṛṣṭam āśārāṣi †kramagul etv astam
 z 3 z udīrayata marutas samudratas tveṣā arkā nabha utpātaya-
 ntu | pra varṣayantu taviśās sudānavo 'pām rasina oṣadhīs
 sacantām z 4 z ganās tvopa mārutās parjanya ghoṣiṇaḥ pṛthak |
 sargā varṣasya varṣatas sṛjantu pṛthivīm anu z 5 z sam avantu
 sudānava utsā ajagarā uta | vātā varṣasya varṣatas prāvantu
 pṛthivīm anu z 6 z vāto vidyud abhram varṣam sam avantu
 sudānavaḥ | pra pyāyasva pra bibhrṣva sam bhūmīm payasā
 sṛja z 7 z apām agnis tanūbhis samvidāno ya oṣadhīnām adhipo
 babhūva | sa no varṣam vanutām jātavedās prāṇam prajābhyo
 amṛtaṁ divas pari z 8 z āśām-āśām vi dyotatām vātā vantu
 diśo-diśaḥ | marudbhis pracyutā meghā varṣantu pṛthivīm anu
 z 9 z prajāpatis salilād ā samudrād āpa irayann udadhim
 ardayāti | pra pyāyatām vṛṣṇo 'śvasya reto arvāṇ etena stana-
 yitnunehy apo niṣiñcann asuraḥ pitā naḥ z 10 z śvasantu gargarā
 apām ava nīcīr apaḥ sṛja | vadantu pṛṣṇibāhavo maṇḍūkā iriṇānu
 z 11 z samvatsaram śaśayānā vrāhmanā vratacārīṇaḥ | vācam
 parjanyaajinvitām pra maṇḍūkā avādiṣuḥ z 12 z upapravada
 maṇḍūki varṣam ā vada tāduri | madhye hradasya plavasva
 vigrhya caturaṣ padaḥ z 13 z mahāntām kośam udajābhi śiñca
 savidyutaṁ bhavāti vātu vātaḥ | tanvatām yajñam bahudhā
 viśṛṣṭam ānandinīr oṣadhayo bhavantu z 14 z 2 z

In 2a I have tried to keep close to the ms.; but the reading given by the ms. may be only a graphic variant of the Ś form. In 3d we might well read with Ś kṛśagur. The form given for 4b is Whitney's suggestion. The evidence of our ms., though slight, supports the reading of 10e with st. 10.

8

(Ś. 4. 6)

[f.78a5] *yāvati dhyā*[6]*vāprthivī vavirimṇā yāvad vā sapta*
sindhavo vicaṣṭhuḥ vācam viśasya [7] *dūṣaṇīm tām ito nir*
avāriṣaṁ | suparṇas tvā garutmān viṣa prathamam ā[8]*dayat.*
| nāropayo nāmādayotāsmābhavan pituḥ yām cāstrta[9]*t pañcā-*
ṅgulir vakrā cid ati dhanvinaḥ | apaskambhasya bāhvo[10]*n*
nivocam aha viṣaṁ z śalyād viṣaṁ nirvocam āñjanāt parṇadher
uta | [11] *apāṣṭhās chrgalāt karmalān nirvocam ahaṁ viṣaṁ |*
ramas tveko śalyo [12] *uto te rasaṁ viṣaṁ z utārasusya vṛkṣasya*
dhanuṣ ṭe ramārasam. ye pī[13]*yūsaṁ ya duṣyaṁ yāmyaṁ neva-*
vāsrjan | sarve te vadhrayas santu vadhrir vi[14]*ṣagiriṣ kṛtā |*
vadhrayas te khanitāro vadhri tvam asy oṣadhe | vadhrisva
pa[15]*rvato giri yato jātam idaṁ viṣam. vād idaṁ vārayātāi*
varuṇātā[16]*bhṛtaṁ | tatrāmṛtasyāsiktaṁ taś cakārārasaṁ*
viṣam. z 3 z

Read: *yāvati dyāvāprthivī varimṇā yāvad vā sapta sindhavo*
vitaṣṭhuḥ | vācam viśasya dūṣaṇīm tām ito niravādiṣam z 1 z
suparṇas tvā garutmān viṣa prathamam ādayat | nāropayo
nāmādaya utāsmā ābhavan pituḥ z 2 z t yām cāstrtat t pañcāṅgu-
lir vakrā cid adhi dhanvanah | apaskambhasya bāhvor nirvocam
ahaṁ viṣam z 3 z śalyād viṣaṁ nirvocam āñjanāt parṇadher uta
| apāṣṭhāc chrṅgāt kulmalān nirvocam ahaṁ viṣam z 4 z arasas
ta iṣo śalyo 'tho te 'rasaṁ viṣam | utārasasya vṛkṣasya dhanuṣ
ṭe 'rasārasam z 5 z ye 'pīṣaṁ ye 'duṣyaṁ ya āsyaṁ ye
'vāsrjan | sarve te vadhrayas santu vadhrir viṣagiriṣ kṛtaḥ z 6 z
vadhrayas te khanitāro vadhris tvam asy oṣadhe | vadhris sa
parvato girir yato jātam idaṁ viṣam z 7 z vār idaṁ vārayātāi
varuṇād ābhṛtam | tatrāmṛtasyāsiktaṁ tac cakārārasaṁ viṣam
z 8 z 3 z

The margin suggests serve te in 6c.

In 2d *abhavaṣ*, in accord with Ś, would be smoother. In 3a I suspect we have only a corruption of the reading of Ś *yas ta āsyat*; but possibly a form of *str* is the verb. Our st. 8 is Ś 4. 7. 1; the form suggested for our pāda b is not satisfactory. and something like *varaṇāvatyā ābhṛtam* would bring it in accord with Ś.

9

[f.78a16] *khā*[17]*direṇa śalalenātho kaṅkatadantyā | atho viṣasya yad viṣaṁ tena pā*[18]*mīr anīnaśaṁ.*

In pāda b we may read *kaṅkatadantyā*; in d read *pāpīr*.

kityās śataparvaṇās sahasrākṣeṇa śarmaṇā | [f.78b1] *tikṣṇā-bhir abhriḥbhir vaya nir adāmās sadānvā*

In a read *śityās śataparvaṇas*; in cd *vayaṁ nir ajāmas sadānvāḥ*; the verb is very uncertain.

māsahāsatyam ida[2]*ṣ kṇvā paro nudaḥ māyādhanāgatā yās ciha grṇiṣ puraḥ*

For pāda b we may read *itaṣ kṇvām paro nudaḥ*, but for a I see nothing sure; perhaps *sadānvām* should be the first word having dropped out after *sadānvā* of st. 2d, and then *asatyām* might be the last word of the pāda with some form of the root *sah* before it. In cd we might read *māyādhārā āgatā yā yās ceha jurniṣ paraḥ*; but this is very uncertain.

nacā [3] *itthā nacā ihā vamāsato akṣe va śrṅgavaś chiraḥ | sadānvā vrā*[4]*hmaṇas pate tikṣṇaśrṅgodrśann ihi |*

The second hemistich is clear here *sadānvā vrahmaṇas pate tikṣṇaśrṅgodrśann ihi*; cf RV. 10. 155. 2cd. Pāda b we may read *akṣe vaś śrṅgavac chiraḥ*, which appears also Ppp. 6. 8. 4d: RV. 10. 155. 2a is *catto itaś cattāmutaḥ*, which suggests for pāda a here *nīcā itthā nīcā iha vamāmuto*.

vi ten manthās caśire vi tade[5]*te agado hi ni dadāu te abhy agāuṣ kanve parehy avaraṁ vrne |*

I can offer nothing here except the division of words.

yās te[6]*nke tiṣṭhanty ā valike yā prayam khe prayam kha-yanty uta yāni ghorā |* [7] *yā garbhāt pramrśanti sarvāḥ pāpīr anīnaśaṁ |*

For pāda a *yās te* 'nke *tiṣṭhanti yā valike* might stand; in b it seems that *prayam khe* is due to dittography and should be dropped, and it might be possible to read *yāḥ prayāṣ kṣiyanty uta yā nu ghorāḥ*. In c read *garbhān pramrśanti*.

yās celam vasatā u[8]*ta yā natta duṣaṁ nīlam piṣaṅgam uta lohitaṁ yā | yā garbhān* [9] *pramrśanti sarvāḥ pāpīr anīnaśaṁ*

In pāda a the first word should perhaps be yās and the last word probably dūṣaṁ, but further I cannot see: with piśaṅgam and yāḥ b can stand being practically the equivalent of Ś. 14. 2. 48b. Read garbhān in c.

yākidantīr viṣadantī[10]r viṣadantī prāṇam asyāpi niṣyata |
durnāmnīs sarvās saṅga[11]tya māmuṣyotsikta kiñ cana z 4 z

Read: †yākidantīr viṣadantīh prāṇam asyāpi niṣyata | durnā-
mnīs sarvās saṅgatya māmuṣyotsikta kiñ cana z 8 z 4 z

There is a proper name ākidantī which may be in pāda a, but I have thought also of āṅkadantīr. Ś. 5. 8. 4e is prāṇam asyāpi nahyata.

10

[f.78b11] yamyā muśalāhatā [12] dviṣataprṣṭā viṣā suta tapur
agnis tapur dyāus tapanvaṁ sure bhava vi[13]ṣaṁ tveto akma
rohyanto avruvan. |

This seems little more than a series of words, but some corrections at least are evident or possible. Read yamyā muśalā-
hatā and probably dviṣataprṣṭhā; perhaps sutā followed by a colon. Next a triṣṭubh pāda can be made out tapur agnis tapur
dyāus tapasvāṁ. The rest could be counted as two anuṣṭubh
pādas, reading †akma rohayanto.

dviṣaṁ kumbhe va srava viṣaṁ tāma[14]no sure viṣaṁ tvaṁ
hastyāhata viṣaṁ pratihitā bhava |

Read: viṣaṁ kumbhe 'va srava viṣaṁ †tāmano sure | viṣaṁ
tvaṁ hastāhata viṣaṁ pratihita bhava z 2 z

This seems rather unsatisfactory: if sure is vocative then we
would expect vocatives feminine in cd. In st. 6b below we have
viṣaṁ te pāvane sure (sic correxi), which possibly is the form
intended here.

siṅhas te stu ta[15]ṇḍūlo vyāghraṣ pary odanaṁ prajā kūna-
sya nakrahur vṛkasya hr̥di saṁ[16]sravaḥ |

In a read 'stu taṇḍulo; in c kūrasya would fit the tone of
pādas ab but I can suggest nothing for nakrahur; pāda d seems
possible as it stands.

yamvyā pātrā sutāśaṣpassa kvā viṣas pari | varāha [17] manya-
rujaṁ nuttāna pāda sandayaḥ |

I can make no suggestion here.

*udadanī pracyavanī a[18]pām subhagā viṣas pari | utākhāta
manyurujaṁ nyuta paścāt ta[19]purāś kṛdhi |*

I can make no suggestion here.

*viṣaṁ te pavane sure rudhi[f.79a1]raṁ sthāle astu te |
mathnantv anyo anyasmād iṣudhiyaṁ tad dhanas tvat.*

In a pavane seems good; in c read mathnantv; in d iṣudhyān would seem possible and dhanus.

*iṣupāvāno [2] rudhirās caranti pātāro martyās tava ye sumere
| hatāso anye yodhayantv anyā[3]s tvam adīschiraṁ samakimā-
naṁ surāyā |*

Pāda a seems possible as it stands, taking iṣupāvāno as meaning 'protecting from(?) arrows'; in b perhaps we may read ye 'sum erire. A good pāda c is obtained if we read yodhayantv anye; in d I can only conjecture 'straṁ dhikṣeran for the first two words, the rest being possibly good with surayā.

*tvām vīrudho visravo balena uta pā[4]taya sādaya yodhanā-
yāi | bhinnārīr nirbhinnāśīrṣṇā sam ṛchatām ātmacelo [5] visra-
van te surāpā |*

In pāda a read tvām, in ab balenot pātaya sādahaya and perhaps yodhanāya although yodhānāyāi might possibly stand. For c read bhinnārīr nirbhinnāśīrṣṇā sam ṛchatām; in d visra-
van te surayā seems possible, but I suspect ātmacelo for which however I can suggest nothing.

*viṣosutām pīvatī ca rṛṣāṇo mastrā saṁsṛṣṭān rudhi[6]reṇa
mīsrāṇś chinnahastaś carati grāme antar vīrahatyāni bahudhā
paṇā[7]yaṁ |*

For pāda a I see nothing more than the transliteration shows; in b with sasrān and mīsrān we would have a good pāda: with paṇāyan at the end the last two pādas seem possible.

*asumatīm iṣumatīs unnayāma sitād adhi | sādhayābhi sāda-[8]
yā harivīṇām pari ropayā | anyo anyasya mocchiṣam. z 5 z [9]
z anu 2 z*

Read: asumatīm iṣumatīm unnayāma sitād adhi | sādhayābhi
sādhayā ṥharivīṇām pari ropayā | anyo anyasya mocchiṣan z 10
z 5 z anu 2 z

In pāda d possibly we may read arivenām (= enemy's arrow?). In pāda e mocchiṣan is by no means certain.

The intent of this escapes me in spite of some fairly clear hints in st. 2, 6, and 8: and all the suggestions are therefore simply gropings in the dark.

11

[f.79a9] *anu te manyatām agnir varuṇa te anumanyatām | tatas te pu[10]tro jāyatām | sa valghī goṣu yudhyatām idam vāyon ajāniha yadim indra [11] vṛhaspate | āñcanam putravedanam | kṛṇvaṣ puṁsamalan vayam | yenetat pari[12]ṣṭabhitam yasmāt putram na vindase | indrāgni tasmāt tvenasaḥ pari pātām a[13]hardivi ātharvāṇo āṅgirasō viśve devā ṛtāvṛdhaḥ śṛṇvantv a[14]bhya me havam asyāi putrāya vetave | indrāñi varuṇāñi sinivālī [15] utādītīḥ marutarugrā patnīnām putram abhy anudeṣṭu te | putram te mitrā[16]runā | putram devī sarasvatī | putram te aśvināu devā | ādhattām puṣka[17]rassṛja | yeṣām ca nāma jagrabha teṣām ca nopa saṁsmara | devās te [18] sarve saṅgatyā putram cdivātrikaṁ dadhe | ātmanenaṁ nir mamīṣva sa tvat pari [19] jāyatām | tvam bījam urvareva tvam bibharṣi yonyām | pṛthivīm saha ya[f.79b1]jñair nakṣatrāis saha sūryaḥ vātaṣ patatṛibhis saha putram abhy arideṣṭu te z z [2] z 1 z*

Read: *anu te manyatām agnir varuṇas te anu manyatām | tatas te putro jāyatām sa valgī goṣu yudhyatām z 1 z idam vāyor ajāñihedam indrād vṛhaspateḥ | āñjanam putravedanam kṛṇmaṣ puṁsamalam vayam z 2 z yenāitat pariṣṭabhitam yasmāt putram na vindase | indrāgni tasmāt tvāinasah pari pātām ahardivi z 3 z atharvāṇo āṅgirasō viśve devā ṛtāvṛdhaḥ | śṛṇvantv abhi me havam asyāi putrāya vettave z 4 z indrāñi varuṇāñi sinivāly utādītīḥ | †marutarugrā patnīnām† putram abhy anudeṣṭu te z 5 z putram te mitrāvaruṇā putram devī sarasvatī | putram te aśvināu devā ādhattām puṣkarasrajā z 6 z yeṣām ca nāma jagrābha teṣām ca nopa sasmāra | devās te sarve saṅgatyā putram jāivātrikaṁ dadhre z 7 z ātmanīnam nir mimīṣva sa tvat pari jāyatām | tvam bījam urvareva tvam bibharṣi yonyām z 8 z pṛthivī saha yajñair nakṣatrāis saha sūryaḥ | vātaṣ patatṛibhis saha putram abhy anudeṣṭu te z 9 z 1 z*

The ms. seems to correct valghī in 1d to valmī.

If valgī is an allowable form its meaning would seem possible here. In 2d I think puṁsavanam would be a more attractive reading. In 5c we want something like marutām ugrānām patnī

but I do not venture to restore it in the text. With our st. 6 cf. Ś. 5. 25. 3. In 7b either *nāpa* or *nūpa* might be considered as an alternative to *nopa*. The form *deṣṭu* does not seem to be quoted, but is not open to objection, I think.

12

[f.79b2] *vr̥ṣā jajñī madhavāno yaṁ madhumatibhyaḥ sāu te yonim ā[3]śayām bad dakṣaṣ puruṣo bhuvaṁ | yonim gaccha madhavāno yonyām puruṣo bhava [4] tataḥ punan nir āyāmi śīrṣṇās śronibhin nonudat. bānavān i[5]ṣudher iva kṛṇvaṁ putror yathāpriyam | śroniyo manv antarā daśamāsyā[6]yasi | sa pratyām praty ā vantā ete saṁvatsare punaḥ yathā jīvāsi [7] bhadrayābībhanā mahā bhava | saṁ te yonim aceklipam supra-ja[8]stvāya bhadrayā | tatrā siñcasva vr̥ṣṇyam daśamāsyam abhi vratam. | [9] garbhas te yonim ā śāyi garbho jarāyuv ā śayām | kumārā ulba[10]m ā śayām tvaṣṭāklīpto yathāparuḥ yathā rājan madhuvānas taṁ [11] bījam vi rohasi | evā tvam asyā nir bindhi kumāram yonyā[12]dhi | garbhādhāno madhavāno garbham devo vr̥haspatih garbham ta [13] indraś cāgniś ca garbham dhātā dadhātu te z 2 z*

Read: *vr̥ṣā jajñe madhavāno 'yaṁ madhumatibhyaḥ | asāu te yonim ā śayām bad dakṣaṣ puruṣo bhuvaṁ z 1 z yonim gaccha madhavāna yonyām puruṣo bhava | tataḥ punar nir āyāsi cīrṣṇā śronibhin nonudat z 2 z bānavān iṣudher iva kṛṇvaṁ putram yathāpriyam | śronyor manv antarā daśamāsyā āyasi z 3 z sa pratyāṁ praty ā tvartā ete saṁvatsare punaḥ | yathā jīvāsi bhadrayābhi bhartā mahān bhavaḥ z 4 z saṁ te yonim acīklipam suprajastvāya bhadrayā | tatra siñcasva vr̥ṣṇyam daśamāsyam abhi vratam z 5 z garbhas te yonim ā śāyi garbho jarāyuv ā śayām | kumāra ulbam ā śayām tvaṣṭāklīpto yathāparuḥ z 6 z yathā rājan madhavāna taṁ bījam vi rohayasi | eva tvam asyā nir bindhi kumāram yonyā adhi z 7 z garbhādhāno madhavāno garbham devo vr̥haspatih | garbham ta indraś cāgniś ca garbham dhātā dadhātu te z 8 z 2 z*

With our 1c and 6ab cf. Ś. 5. 25. 9b; with our st. 8 cf. Ś. 5. 25. 4. Perhaps *madhuvāna* (cf. ms. in 7a) is the correct form of this word: I find neither. The forms suggested for 2d, 3b, and 4d are rather uncertain. In 4a probably the verb is *prati + ā + vṛt*, and perhaps *varthā* might stand.

13

[f.79b13] śiva[14]ś śivābhir vayas tvaṁ saṁ gacchasva tanvā
 jātavedaḥ | ratnaṁ dadhā[15]nas sumanās purastād gr̥hebhyah
 tvā varcase nir vapāmi pr[16]thivyāṁ ghama stabhito antarikṣe
 divi śrataḥ dyāur enān sa[17]rvataḥ pātu yas tvā pacany odanaḥ
 ye samudram ayīrayaṁ ye [18] ca sindhuṁ ye antarikṣaṁ
 pr̥thivīm uta dyām. ye vātena sa[f.80a1]rathaṁ yānti devās tān
 āpnoty odanā pākātra ṛcā kumbhi dīṇyatā sāmnā [2] pacyato-
 danā aṅsaṁ somasyāikaṁ manye vāiśvadevam idaṁ haviḥ ulū-
 khale [3] musule yaś ca śūrpe bhūmyām ukhāyām yadi vāsi
 sañja | yā vipuruṣo [4] yā vinirnejanāni sarvaṁ tat te vra-
 hmaṇā sūdayāmi ūrdhva prehi māpa [5] vyaktā vyarujō anta-
 raṁ | rakṣāṁsi sarvā tīrtvā yathā roha divaṁ tvaṁ | turo no [6]
 turo bhava saṁ dhībhir vīyatām ayam saṁ pr̥thivyā sam agninā
 saṁ sūryasya raśmi[7]ṣu | saṁ devānām apasva | ā ca dviṣas
 sukr̥tasya loke | tṛtiye nāke [8] adhi rocane divaḥ satyor apadaṁ
 yopayanto anyetva pr̥cchāmi kṛtya mṛtyuṁ [9] padayopanena
 z 3 z

Read: śivaś śivābhir vayas tvaṁ saṁ gacchasva tanvā jāta-
 vedah | ratnaṁ dadhānas sumanās purastād gr̥hebhyas tvā
 varcase nir vapāmi z 1 z pr̥thivyāṁ gharmaṣ stabhito antarikṣe
 divi śrataḥ | dyāur enaṁ sarvataḥ pātu yas tvā pacaty odana z
 2 z ye samudram āirayan ye ca sindhuṁ ye antarikṣaṁ pr̥thivīm
 uta dyām | ye vātena sarathaṁ yānti devās tān āpnoty odanaḥ
 pākāpātre z 3 z ṛcā kumbhī ni dīyatām sāmnā pacyata odanaḥ |
 aṅsaṁ somasyāikaṁ manye vāiśvadevam idaṁ haviḥ z 4 z ulū-
 khale musale yaś ca śūrpe bhūmyām ukhāyām yadi vāsi sañjah
 | yā vipuruṣo yā vinirnejanāni sarvaṁ tat te vrahmaṇā sūdayāmi
 z 5 z ūrdhvaḥ prehi māpa †vyaktā vyarujō† antaram | rakṣāṁsi
 sarvā tīrtvā yathā rohā divaṁ tvaṁ z 6 z turo no 'turo bhava
 saṁ dhībhir vīyatām ayam | saṁ pr̥thivyā sam agninā saṁ
 sūryasya raśmibhiḥ z 7 z †saṁ devānām apasva | ā ca dviṣas†
 sukr̥tasya loke tṛtiye nāke adhi rocane divaḥ z 8 z mṛtyoḥ padaṁ
 yopayanto anv eta †pr̥cchāmi kṛtya† mṛtyuṁ padayopanena z 9
 z 3 z

In f.79b l. 14 the ms. corrects to gacchadhva.

Pāda a of st. 1 seems to be defective, and the trouble is probably in vayas; vahas comes to mind but hardly improves the pāda. At the end of 3d pākatrā might be a simpler emenda-

tion. With 6a we may compare Ś. 6. 87. 2a ihāivāidhi māpa cyoṣṭhāh; for vyaktā perhaps we should read some form of vyac. That there are two stanzas after st. 7 I feel fairly confident, but can get no further with them than is indicated above.

With st. 1b cf. Ś. 18. 2. 10d; RV. 10. 16. 5d. With st. 4a cf. Ś. 9. 5. 5a. Our 5a appears VSK. 2. 5. 2a and elsewhere with yac ca: our 8c appears RV. 9. 86. 27d and elsewhere with prṣṭhe. What is given here as st. 9 looks as if it might be a corrupted version of a stanza composed of Ś. 12. 2. 30ab and 29cd.

14

[f.80a9] *bhūtvā mukham asi satyasya raśmir uccāi* [10] *śloko divam gaccha uśchriyetām haviṣkrto* | *sādhu devān saparyata* [11] *m ajāiṣas apa luspata* |

Reading bhūtvā we have a good pāda of eleven syllables; in b I would read uccāiśśloko, in c haviṣkrtau; in d saparyatām is probable; the last pāda, in which lumpatu is the only possibility which suggests itself, perhaps does not belong here.

āpo devīr yajñakṛtaḥ śukra devīn havi[12]*ṣkrtaḥ ekapātro-*
dano agniṣṭomena sammyatā |

Read: āpo devīr yajñakṛtaḥ śukrā devīr haviṣkrtaḥ | ekapātra odano agniṣṭomena samyataḥ z 2 z

Pāda c would be improved by reading ya eka°.

gāyatrī havyavā[13]*d asi devatāgnis sam idhyase* | *sahasra-*
dhāraṁ sukṛtasya loke ghr[14]*tapṛṣṭham amattyuh*

This is all correct except the last word for which mamadyuh would seem possible.

tapaś ca satyaṁ cāudanaṁ prāśnītām paramesṭhināu tā-[15]
bhyām vāiśvarābhṛtaṁ tenādhīpatir ucyase |

Read vāiśvānarā° in c; with this the stanza seems correct.

udagāyo śivāyoh | [16] *prāṇena samyata* | *apa vṛprāṇimaj*
jahy

Out of this I get nothing: it seems to represent st. 5, for the rest of the material divides readily into three stanzas.

apa kṣīya duritam a[17]*ham* | *apa rakṣāṁsi tejasā* | *devebhyo*
havyam arcataṁ vyacasvān supra[f.80b1]*thā sa hi* |

In a kṣīye seems possible; in d read suprathās.

*uścāis suparṇo divam ut patāsundriyam deveṣu ākrṇvann
ṛṣi[2]bhyaḥ pari dehi mām śukraṁ śukreṇa bhakṣayām pivantu
sukṛto madhu |*

In a read uccāis, in ab patāsIndriyam, in d bhakṣyam pibantu.

*dva[3]yā devā tapano yajñam ākur yān odano dviṣade yānś
ca prṣṭhaḥ ā[4]dityāṅgirasas svargam imam prāśnantu ṛtubhir
niṣadya z 4 z*

Read: dvayā devās tapanam yajñam ākur yān odano †dvi-
ṣade yānś ca prṣṭhaḥ | ādityā āṅgirasas svargam imam prāśnantv
ṛtubhir niṣadya z 8 z 4 z

For dviṣade in b viṣate would seem rather good, and prṣṭhyam
might be better than prṣṭhaḥ. In a tarpanam might be better.

15

[f.80b5] *pīyūṣasya kṣīrasya sarpiṣo anyasyāgram sambharā-
metat. etabhā*am[6]s akutādo anyo vāiśvadevaṁ havir ubha-
yam samcaranti |*

For pāda b read annasyāgram sambharāmy etat. The first
word of c is probably yathābhāgam, and anye should be read for
anyo; the last pāda can stand, although Kāuś. 73. 14 has ubhaye.
It is possible that what stands here as pāda c is a corrupt
abbreviation of Kāuś. 73. 14ab.

*te samyañca [7] iha mādayantām iṣam ūrja yajamānāya
matsva me sma bhavo mā [8] śarvo vadhīd grāmā vatsān kroma-
śrayo vadamna |*

With ūrjam pāda b might stand, being a variant of Ś. 18. 4.
4d; but Kāuś. 73. 15 has a as here, and in b yajamānā yam
icchata, which probably should be read here. In c read mo sma;
d should probably begin grāmyān vatsān, but I can get nothing
out of the rest of it.

*ye jātā ye ca garbhe[9]ṣu antar ariṣṭāgnes tanum ārabhantām
imā gāvo vijāvatīḥ prajāvatī [10] strīṣu saṁmano bhavantu |*

The meter would be much improved in a by ye ca jātā; in b
read ariṣṭā agnes tanvam. In c read prajāvatīḥ, and for d strīṣu
saṁmanaso bhavantu. The two hemistichs do not hang together
very well.

*ā sabhāumān api pr̥schanti devā sām̐vatsa[11]rāyusā sedasā
saṁsr̥jāmi vra vīyantām striyo gāvo viṣṇur yo [12] ryonim anu
kalpayāti |*

Read: ā sabhāumān api pr̥schanti devās sām̐vatsarāyusā
medasā saṁsr̥jāmi | pra vīyantām striyo gāvo viṣṇur yo yonim
anu kalpayāti z 4 z

*pratigr̥hṇātīr ṛṣabhasya reta ukṣā[13]nad̐vān̐s carati vādya-
tām anu | preram agram na hinasti kiñ cana ya[14]thākāmam
kr̥nuta somyam madhu |*

In a we may probably read pratigr̥hṇātī vr̥ṣabhasya, in b
vāśitām. In c perhaps preram might stand, but preran would
seem better.

*sādur yajñas ahutādo naya[15]nta rāyas poṣā yajamānam
sajantām | nī te prathām̐ pr̥thivī ya[16]ntu sindhavo yad oṣa-
dhayo nihatām̐ predatām̐ irāñ.*

In a we may perhaps read sād̐hur yajnas sa hutādo nayatu;
in b read sacantām (= Ś. 2. 34. 1d). In c read pr̥thivīm̐, in d
nihatām̐ predatām̐ irām̐.

*parjanyaśya [17] maruto dadhiyañsān vāta bhadram̐ sasyam̐
pacyatām̐ modatām̐ jagat. | [18] saptar̥ṣayas sapta svarāñsy
eṣām̐ sapta kṣayo śvinoh̐ |*

For dadhiyañsān vāta I can suggest nothing plausible; nor for
kṣayo, after which read 'śvinoh̐.

*pañca vājā prā[f.81a1]ṇo vyāno manākutīr vāg devī devebh̐yo
havyam̐ vahatu prajāñān.*

Read vājāḥ and mana ākūtīr, with colon after devī; this can
be read as two eight-syllable pādas. Read prajāñan.

*ye ca dr̥[2]ṣṭā ye cādr̥ṣṭās krimayaṣ kikkīśās ca ye | teṣām̐
śirāñsy asinā śchi[3]nad̐mi yathā sām̐vatsanāyusā medasā
saṁsr̥jāmi z 5 z [4] z anu 3 z*

Read: ye ca dr̥ṣṭā ye cādr̥ṣṭās krimayaṣ kikkīśās ca ye | teṣām̐
śirāñsy asinā chinad̐mi yathā sām̐vatsarāyusā medasā saṁsr̥jāmi
z 9 z 5 z anu 3 z

16

*[f.81a4] dyāuś cemañ yajñam̐ pr̥thivī ca sandahātām̐ mā-[5]
tariśvā pavamānaṣ purastāt. tvaṣṭā vāyus saha somena vāta
i[6]mam̐ sam̐ duhur ānapasphurantaḥ*

In a read sanduhātām; in d read ana°: for pāda a see TB. 3. 7. 4. 15.

gharmaṁ tvapānv amṛtasya dhārayā devebhyo [7] havyam paride savitre | śukraṁ devās śrutam ajaṇtu havyam āsam juhvā[8]nām amṛtasya yonāu |

In a read tapāmy, in b paridām, in c śrtam adantu, in d juhvānam. These corrections bring the stanza in accord with Vāit. 14. 1. .

ud vāsayāgne śrutam akarma havyam ā roha [9] prṣṭham amṛtasya dhāma | vānaspatoḥ upa barhi strṇīta vadhvā sa-[10] matū ghṛtavat karātha |

Read: ud vāsayāgneś śrtam akarma havyam ā roha prṣṭham amṛtasya dhāma | vānaspatyā upa barhi strṇīta madhvā samāṅktha ghṛtavat karātha z 3 z

For pādas ab cf. Kāuś. 2. 37; for d cf. Kāuś. 2. 36.

yopsī yakṣmaś samayāmi taṁ vorja gavyūti[11]yam śam anajmi yetāṁ taṁ nam krī kṣīram avitham naṣ kṛṇomy aṅśam tayanto [12] piyūtham etaḥ

If yopsī may mean 'hurtful' it may stand; at the end of pāda a read taṁ va; for b ūrjam gavyūtiṁ sam anajmy etām. Just above taṁ, at the beginning of c, the ms. interlines a correction ktā, but I can make nothing of the first part of the pāda; read aṁśam for avitham. For d it seems possible to read aṅśam dayante piyūṣam etat.

idānām pitā uta pitnyāyānām payo dhayanṭv a[13]kuniyamānaḥ | ṛtubhis sasyam uta kliptam astu yo gopā rakṣatu vā[14]yur ena |

In a pītā seems a probable reading, and pitryānām; in b read dhayanṭv ahrṇīyamānāḥ; in c kliptam; at the end of d enām may be possible.

pivata ghṛtam yata dhāvayed guhā yataṁ nihataṁ mānuṣeṣu | [15] viśve devā vāiśvadevasyāgnāu yathābhāgo haviṣo mādayadhvam |

In a read pivata, and perhaps yato or yatra; with nihitaṁ pāda b would seem good: in d read yathābhāgaṁ.

yo [16] devānām asi śreṣṭho rudras tvamticaro vṛṣā | ariṣṭa-smākaṁ virā me [17] tad astu hṛtaṁ tava |

In b read tanticaro; in c arisṭā asmākam; in d read hutam for hr̥tam, and unless medad can stand as the first word of d I can see nothing. Pāda a appears MŚ. 1. 3. 4. 3, and pāda b TB. 3. 3. 2. 5.

*pūrṇam aham karīṣaṇam | śatavantam sahasraṇam vi-[f.81b1]
śvebhīr agne devāir imam goṣṭhamām durha z 1 z*

Read: pūrṇam maham karīṣaṇam śatavantam sahasraṇam |
viśvebhīr agne devāir imam goṣṭhamām dūrha z 8 z 1 z

This stanza as emended is not satisfactory; I have tried to bring it into the general sphere of the first six stanzas, but that may be a mistaken effort.

17

(Ś. 6. 111 with additions)

*[f.81b1] devāinasād unmadi[2]tam kṣettriyās chapathār uta
| muñcantu tasmā tvā devā unmattam rakṣa[3]sas pavi z*

For b read kṣettriyāc chapathād uta; in c tasmāt, in d pari.
Our a and d are Ś. 3ab.

*munim bhavantam saryāni vāvṛto rakṣānsy aknu ulā ka-[4]
nikratī | atas tam no adhi pāhi vājinn indrena medī vṛhate [5]
ranāya |*

The first two words of a are probably sound; for the next word paryāṇe might be possible, followed by some form of vṛt. In b only the first and last words seem good: I can get no idea of the intent of the first two pādas.

*yathāgne devā ṛbhavo maṇiṣiṇom unmattam asṛjany are-[6]
nasah eva te śakre abhayaṁ kṛṇotu muñcasvāinaso vi nayāmi
rakṣah [7]*

In ab we may probably read maṇiṣiṇo 'mum unmattam asṛjann āra enasah. In c read śakro, in d nayāsi.

*yathā gāvās ca bhūmyām puruṣāśvīnya okasaḥ yavonmattasya
te mu[8]ne śa gr̥hṇātu pṛthivīm anu |*

Read gāvās in a; for b the only suggestion I have is puruṣās cinvanty. In c read evon°, in d perhaps sam or sa.

*munim dādāhāra pṛthivī munim dyāu[9]r abhi rakṣati munni-
yam hi viśvā bhūtāni munim indro adīdharat. | [10] parā rakṣa
svāmi te |*

Read: munim dādhāra prthivī munim dyāur abhi rakṣati |
munim hi viśvā bhūtāni munim indro adīdharat | parā rakṣas
suvāmi te z 5 z

With the last pāda cf. Ś. 4. 13. 5d, which has yakṣmaṁ.

imaṁ me agne puruṣaṁ samugdhi yā vibho grā[11]*hyā lālāpīti*
| *utodite kṛṇavarbhāgadheya munim mudito* [12] *agado yathā-*
sat. |

Read: imaṁ me agne puruṣaṁ mumugdhi yo vibaddho grāhyā
lālāpīti | atho 'dhi te kṛṇavad bhāgadheyam anumudito agado
yathāsat z 6 z

agniṣ te na śasayatu yat te unmana uddhṛtaṁ ju[13]*homi*
vidvāṁs te havir yathānammudito bhava |

Read: agniṣ te ni śamayatu yat te tan mana uddhṛtam |
juhomi vidvāṁs te havir yathānumudito bhavaḥ z 7 z

punas tvā tur apsaraṣ pu[14]*nar vātaṣ punar diśaḥ punar*
yamaṣ punar yamasya dūtās te tvā muñca[15]*ntv aṇhasaḥ* |
jīvātave na martave atho ariṣṭatātaye |

Read: punas tvā dur apsarasas punar vātaṣ punar diśaḥ |
punar yamaṣ punar yamasya dūtās te tvā muñcantv aṇhasaḥ |
jīvātave na martave atho ariṣṭatātaye z 8 z 2 z

18

(Ś. 4. 13)

[f.81b15] *uta de*[16]*vā avahitaṁ devā uddharatā punaḥ tato*
manuṣyaṁ taṁ devā dāivaṣ kṛ[17]*nuta jīvase* | *ā tvāgamam*
śantātībhi atho ariṣṭatātībhiḥ [18] *dakṣam te bhadram āriṣam*
parā muvāsy ānaya tu. dvāv imāu vātāu vā[f.82a1]*ta ā sindhor*
ā parāvataḥ dakṣaṁ te anya ā vatu parāṇyo vāta yad rapaḥ | [2]
ā vāta vāhi bheṣajaṁ vi vāta vāhi yad rapaḥ tvaṁ hi viśvabhe-
ṣajo [3] *devānām dūta iyase* | *trāyantām imaṁ devās trayantām*
maruto gaṇāiḥ [4] *trāyantām viśvā bhūtāni yathāyam agado*
sati | *ghṛtena dyāvā*[5]*prthivī ghṛtenāpas samukṣatā* | *ghṛtena*
muṣcasvāinaso yad ā tva [6] *kṛtam āhṛtaḥ ayaṁ me hasto bha-*
gavattaraḥ ayaṁ me viśvabheṣajo yaṁ śi[7]*vābhimarśanaḥ*
hastābhyām daśaśākhābhyām jīhvā vātaṣ purogavi | *hanāma*-[8]
yatnubhyām samvubhyām tvā abhimarśāmasi | *āpa id vā u*
bheṣajās tās te [9] *kṛṇvantu bheṣajam.* z 3 z

Read: uta devā avahitaṁ devā ud dharathā punaḥ | uto manu-
 syaṁ taṁ devā dāivāḥ kṛṇuta jivase z 1 z ā tvāgamaṁ śāntā-
 tibhir atho ariṣṭatātibhiḥ | dakṣaṁ te bhadram ābharsaṁ parā
 suvāmy anayaṁ te z 2 z dvāv imāu vātāu vāta ā sindhor ā parā-
 vataḥ | dakṣaṁ te anya ā vātu parāṇyo vātu yad rapaḥ z 3 z ā
 vāta vāhi bheṣajaṁ vi vāta vāhi yad rapaḥ | tvaṁ hi viśvabhe-
 ṣajo devānāṁ dūta iyase z 4 z trāyantām imaṁ devās trāyantām
 maruto gaṇāḥ | trāyantām viśvā bhūtāni yathāyam agado 'sati
 z 5 z ghr̥tena dyāvāpr̥thivi ghr̥tenāpas samukṣatā | ghr̥tena
 muñcasvāinaso yad ā tvā kṛtam ahr̥thāḥ z 6 z ayaṁ me hasto
 bhagavān ayaṁ me bhagavattaraḥ | ayaṁ me viśvabheṣajo 'yaṁ
 śivābhimarśanaḥ z 7 z hastābhyāṁ daśasākḥābhyāṁ jihvā vācas
 purogavi | anāmayitnubhyāṁ śāmbhubhyāṁ tābhyāṁ tvābhi
 mṛśāmasi z 8 z āpa id vā u bheṣajir āpo amivacātaniḥ | āpo
 viśvasya bheṣajis tās tvā kṛvantu bheṣajam z 9 z 3 z

In 2c our ms. seems to point toward the form which most of
 the mss. of Ś have: the form given for 2d is close to the form
 in Ś, parā yakṣmaṁ suvāmi te. St. 6 has no parallel: st. 9
 varies only in pāda d from Ś. 3. 7. 5 (= Ppp. 3. 2. 7); the
 similar endings of pādas a and c account for the omission of
 b and c.

19

(Ś. 3. 30)

[f.82a9] sahr̥dayaṁ sām̐nasyam avidveṣaṁ kṛṇo[10]mi vaḥ
 anyo nyam abhinnuta vatsaṁ jātam ivāghnyā anuvrataḥ pituḥ
 putro mātṛā [11] bhavati sunnataḥ jāyā patye madhumatīm
 vācaṁ vadatu śāntivām | mā trā[12]tā bhr̥taraṁ dhukṣa mā
 svasāram uta svasā | samyañcas suvratā bhūtvā vācaṁ va-[13]
 datu bhadrayā | yena devā na vīyanti no ca vidviṣate mithaḥ |
 tat kṛṇvo [14] vrahma vo gr̥he saṁjñānaṁ puruṣebhyaḥ jāya-
 svṛntaś cittano mā vi yaṁṣṭas saṁnā[15]dhayantas sudhīrāś
 carantaḥ anyo nyasmāi valgū vadantu yaca samagrāstha sa-[16]
 dhr̥cināṁ samāni prapā saha vo nyabhāgas samānyokte saha vo
 yuna[17]jmi samyañco gnyo sapariyatādā nābhim ivābhṛtā |
 yena devā ha[f.82b1]viśā yajatrāpa pāpmānam āpnuta | kro-
 dhaṁ manyum ṛtaṁ bhāgaṁ duruktam aśo[2]canam. | rejaṁ
 ni dadhmāsi | sadhr̥cināṁ nas samanasaḥ kṛṇomy ekasu[3]ni-
 ṣṭyaṁ saṁvananena saṁhṛda | devā yaved amṛtaṁ rakṣamāṇas
 sāyaṁ[4]pr̥tatas susamītir vo stu z 4 z

Read: sahrdayam sāmmanasyam avidveṣam kṛṇomi vah |
 anyo 'nyam abhi navata vatsam jātam ivāghnyā z 1 z anuvrataṣ
 pituṣ putro mātṛā bhavatu samyataḥ | jāyā patye madhumatīm
 vācam vadatu śāntivām z 2 z mā bhṛtā bhṛtaram dvikṣan mā
 svasāram uta svasā | samyañcas savratā bhūtvā vācam vadata
 bhādayā z 3 z yena devā na viyanti no ca vidviṣate mithaḥ |
 tat kṛṇmo vrahma vo grhe samjñānam puruṣebhyaḥ z 4 z jyāya-
 svantaś cittino mā vi yāmsta samrādhayantas sadhurās carantaḥ
 | anyo 'nyasmāi valgu vadanto yāta samagrās sta sadhrīcīnāḥ
 z 5 z samānī prapā saha vo 'nnabhāgas samāne yoktre saha vo
 yunajmi | samyañco 'gnim saparyatārā nābhim ivābhṛtāḥ z 6 z
 yena devā haviṣā yajatrā apa pāpmānam apunata | krodham
 manyum ṛtīm bhaṅgam duruktam āśocanam rejmanī ni dadhmasi
 z 7 z sadhrīcīnāḥ vas sāmmanasas kṛṇomy ekaśnuṣṭin samvana-
 nena sahrdayaḥ | devā ived amṛtam rakṣamānās sāyam-prātas
 susamitir vo 'stu z 8 z 4 z

The ms. corrects dhukṣa in 3a to kṣudha.

The variants from Ś are slight. In 5d three syllables are needed; samantāḥ, or samānāḥ, would fit in nicely and might easily have dropped before samānī. In 6d Ś has ivābhitaḥ. St. 7 is new; in pāda c ṛtambhāgam, as given in the ms., seems out of harmony with the context.

20

[f.82b4] *paro paraś ca parastan ma parasta*[5]*ram agnir*
vātasya dhrājyāpardhādhe aham tām |

The first pāda seems to be defective; it seems to end 'paraś ca: for b I incline to read paras tardāḥ paraś caran. For cd read agner vātasya dhrājyāpa bādhe aham tām; cf. Ś. 3. 1. 5b.

udakasyedam enam vānta[6]*syedam nibhañjanam | agnen*
namasyāyam panthā neha tandāyanam tavā z z [7]

In a read ayanam, for b vāntasyedam nibhañjanam. In c a possible reading is agner namasyā°; in d read tandāyanam tava.

pari tvā kṛṣṇavartmani agnir dhūmanārciṣā | sa tvan tardhā
paraś carā[8]*nyata dhy ahvanī*

In a read °vartane, in b dhūminārciṣat: in c sa tvam tarda; the sign transliterated hva in the last word is not clear, and I suggest carānyato 'dhi hr̥ṇīhi as a possible but doubtful reading.

*yavā etan māsuresītās ca ye | sarvāns tām vrahma[9]nā vayan
śalabhān jambhayāmasi |*

In the first two words we seem to have what represents pāda a, with some mention of barley; the next pāda might be māsara eṣitās ca ye; the rest is correct. I take śalabha to mean an insect of the grasshopper sort.

*śalabhasya śalabhyas tandasyo[10]tpatattrināḥ z agnir vāta-
sya nrājyāpi nipyāmy āsam |*

In a read śalabhyās, for b tardasyotpatatrinah: pāda c as in st. 1, and for d °āpi nahyāmy āsyam (= §. 7. 70. 4b, 5b).

*yadida [11] gavi bheṣajam viśvād ṛpāt samābhṛtaḥ | ākhor
ghuṇasya tandasya [12] teṣā snāvnāpi nahyataḥ*

In a read yadidam; in b riphāt is the simplest correction but an ablative would seem better. In c read tardasya, and for d teṣām snāvnāpi nahyata.

*trṣṭā tvam asi gandhena oṣadhir guṇaja[13]mbhinī | ākhor
ghuṇasya jātāni | tāni jambhaya tejasū*

The kh in ākhor is imperfect. In ab read gandhenāuṣadhir ghuna°; remove the colon after jātāni.

*tūlam [14] tandas trṇasyāttu mūlam ākhur dhiyeṣitaḥ | atho
vrkṣasya phalgū [15] yad ā ghuṇā yantu sayavam.z 5 z anu
4 z*

Read: tūlam tardas trṇasyāttu mūlam ākhur †dhiyeṣitaḥ | atho vrkṣasya phalgu yad ā ghuṇā yantu sayavam z 8 z 5 z anu 4 z

Although many details are very uncertain here, the sphere is clearly that of §. 6. 50.

21

(cf. §. 5. 22 passim)

*[f.82b16] dyāus ca dhāṣ pitā pṛthivī ca mātā cāgniś ca nṛcakṣā
jāṣave[17]dāk | te takmānam adharāñcam nyoñcam daśāham
namasyam tvaradhi dūra[f.83a1]m asmat.*

This seems to be clear except toward the end; the simplest correction would be namasyan tvarāti, but it is very possible that a verb form is concealed in daśāham and that namasyam is an adjective.

*takmann iyaṁ te kṣettrabhāgam apābhajan prthivyāḥ pūrve
ardhe ati[2]hāya tīm ati no kinasvid grāhiṣ kṛtvā grheṣu iti
kilā suśiṣṇaḥ [3]*

The only suggestions I can make are imaṁ for iyaṁ, and kṣettrabhāgam apabhajan; in the rest the word division is not certain.

*takmaṁ parvatā ime himavantas somaprṣṭhāḥ vātaṁ jūtaṁ
bhiṣāja no a[4]kraṇ naśyeto marajānñ abhi |*

Read takman, vātajūtaṁ bhiṣajaṁ no akraṇ, and marajān. This is probably intended to be metrical. Pāda d seems to be of similar intent to Ś. 5. 22. 7a.

*na tvā striyaṣ kāmayaṇte na pumśāṇsaṣ katime [5] cana | neha
takma kāmāloro titaro mahān.*

Read pumśāṇsaṣ and we have two readable pādas: next takmā seems probable and perhaps kāmalo; for the last pāda 'ravati taro mahān might seem possible, but it does not give any very good meaning.

*mā no hiṁsīn mahato mā [6] hiṁsīr mahyaṣ tvaṁ kumārān
babhro mā hiṁsīn mā no hiṁsiṣ kumāriha [7]*

In a read hiṁsīr, in b perhaps mahiṣas; in c hiṁsīr, and in d perhaps kumārīr iha. Cf. Ś. 11. 2. 29.

*yaḥ sākam utpādayasi balāsaṁ kāsaṁ anvrjaṁ bhīmas te
takman hē[8]tayaṣ tābhīṣ sa pari vṛndhi nā |*

In b read balāsaṁ and perhaps anvrjum, for which Ś. has udyugam. In c bhīmās, in d naḥ; Ś. has tābhīṣ sma in d.

*anyakṣettrena ramate sahasrākṣo [9] martyaḥ abhūti prā-
rthas takmatmāu no mṛdāyisyati*

Read: anyakṣetre na ramate sahasrākṣo 'martyaḥ | abhūd u prārthas takmā +tmāu no mṛdāyisyati z 7 z

In d perhaps we may read tmanāṁ no.

*takman na bhahiyā[10]śvā na gāvo neha te ca grhā | śataṁna-
rasya muṣṭihā punar gaścha mahā[11]vṛṣām . z 1 z*

Read: takman na bheyā aśvā na gāvo neha te ca grhāḥ | śakaṁ bharasya muṣṭihā punar gaccha mahāvṛṣān z 8 z 1 z

The reading suggested in a is barely probable: in pādas cd I have followed Ś, which however has etu in d.

22

[f.83a11] *yo hemantaṁ śāpayatho balenārvāg de*[12]*vety uda*
ye paro divaḥ bhavārudrayos sumati vṛṇīmahe anyatrā[13]*ssad*
aghahaviṣā vy etu | yo dyām ā tanotu yo ntarikṣaṁ stabhrāty
ojaso [14] *jāyamānaḥ tasmāi rudrāya haviṣā vidhemānyatrā-*
smad aghaha[15]*viṣā vy etu. z yayo rodhān nāpapadyate kiṁ*
canāntar deveṣūta mānu[16]*ṣeṣu | tābhyām rudrābhyām haviṣā*
vidhemānyatrāssad aghahaviṣā vy e[17]*tu | yāv āisāte paśūnām*
pārthivānām catuṣpadām uta vā ye dvi[18]*pādaḥ | tābhyām*
rudrābhyām haviṣā vidhemānyatrāssad aghahavi[f.83b1]*ṣā vy*
etu z z oṁ anyatrāssad aghahaviṣā vy etu z yasya pratihitā [2]
yā ssa vyañjantu yārānyāṣ paśava uta grāmyāsaḥ | tasmāi
rudrāya ha[3]*viṣā vidhemānyatrāssad aghahaviṣā vy etu | yassād*
oṣaṭayo ba[4]*bhriyamānā yantismān rakṣāso na yujanti viṣve |*
tasmāi rudrāya [5] *haviṣā vidhemānyatrāsmad aghahaviṣā vy*
etu yaḥ parvatān nyana dadhe [6] *tī vidvān yo bhūtāni kalpa-*
yasi prajāgan. | tasmāi rudrāya havi[7]*ṣā vidhemānyatrāssad*
aghahaviṣā vy etu z yāv āisāno carato dvi[8]*pado yaś catuṣpadaḥ*
yā ugro kṣipradhanvānau tābhyām rudrābhyām ha[9]*viṣā vidhe-*
mānyatrasmād aghahaviṣā vy etu | punaś cakṣuṣ punaṣ prā-[10]
ṇaṁ punar āyur dhehi no jātavedaḥ rudra jalāṣabheṣaja
vidvā[11]*ndvastenā haviṣā vidhemānyatrāssad aghahaviṣā vy*
etu z 2 z

Read: *yāu hemantaṁ śāpayatho balenārvāg diva ety uta yo*
paro divaḥ | bhavārudrayos sumatiṁ vṛṇīmahe anyatrāsmad
aghaviṣā vy etu z 1 z yo dyām ā tanoti yo 'ntarikṣaṁ stabhnāty
ojaso jāyamānaḥ | tasmāi rudrāya haviṣā vidhemānyatrāsmad
 ° ° z 2 z *yayo rodhān nāpapadyate kiṁ canāntar deveṣūta*
mānuseṣu | tābhyām rudrābhyām ° ° ° z 3 z *yāv īsāte*
paśūnām pārthivānām catuṣpadām uta vā ye dvipādaḥ | tābhyām
rudrābhyām ° ° ° z 4 z *yasya pratihitā yās sma vyañjanti*
yasyārānyāṣ paśava uta grāmyāsaḥ | tasmāi rudrāya ° ° °
 z 5 z *yasmād ṛṣṭayo bebhriyamānā yanty asmān rakṣaso na*
yuechanti viṣve | tasmāi rudrāya ° ° ° z 6 z *yaḥ parvatān*
vanā dadhiṣe vidvān yo bhūtāni kalpayasi prajānan | tasmāi
rudrāya ° ° ° z 7 z *yāv īsānau carato dvipado yā catuṣpado*
yā ugrāu kṣipradhanvānau | tābhyām rudrābhyām ° ° °
 z 8 z *punaś cakṣuṣ punaṣ prāṇaṁ punar āyur dhehi no jātavedaḥ*
| rudra jalāṣabheṣaja †vidvān dvastenā† haviṣā vidhemānyatrā-
smad aghaviṣā vy etu z 9 z 2 z

Opposite f.83a l.13 in the right margin is *nyoja*, which seems to indicate *stabhrān yojaso* for the end of that line.

In §. 6. 93. 2d we find *anyatrāsmad aghaviṣā nayantu*, where *aghaviṣā* is acc. pl. fem., probably agreeing with an omitted *iṣū*. In 3a I take *rodhān* as abl. case, probably meaning 'arrow.' Pāda 4b appeared in this same form in Ppp. 3. 32. 2b. At the beginning of 5b *yasya* seems necessary; but cf. KS. 30. 8a, 9. In 6a *ṛṣṭayo* is a conjecture based largely on the context, as is *vanā* in 7a. Pāda 9a = Ppp. 3. 17. 3a. In §. 2. 27. 6a we find *rudra jalāṣabheṣaja*; I feel sure that there is corruption in *vidvān dvastenā*, but I can make no suggestion.

23

(§. 4. 17)

[f.83b12] *īśānan tvā bheṣajānām vijeṣāgrṇīmahe cakre sahasra-vi[13]ryam sahasvān oṣadhe tvam | satyajitam śapathayāvanīyam sahasā[14]nām punaścarām sarvā samahavy oṣadhī ṛto mā pārayān iti | yā [15] śāsāpa śapanena yā vāgha mūram ādadhe | yā vā rathasya prā[16]sārehya togham utva sah | praticīnaphalā ity ekā yaś ca bhrātu[17]rviśvapati yaś ca jānuś śapati naḥ vrahmā yam manvataś capāt sarvaṁ [18] tam no adhaspadam yām te cakrur āme pātre yām sūtre nīllohite | [f.84a1] yāmme mānse kṛtyām yām cakras tvayām kṛtyākṛto jahi | dussvapnyam du[2]rjivataṁ rakṣo bhyom arāyya | durvācas sarvaṁ durbhūtaṁ tam ito nāśayā[3]masi | kṣudhāmāraṁ tṛṣṇāmāraṁ aghotām anupaśyatām | apāmā[4]rga tvayā vayan sarvaṁ tad api sṛjumahe z 3 z*

Read: *īśānām tvā bheṣajānām vijeṣa ā grṇīmahe | cakre sahasravīryam sahasyām oṣadhe tvām z 1 z satyajitam śapathayāvanīm sahamānām punaścarām | sarvāḥ samahvy oṣadhīr ito mā pārayān iti z 2 z yā śāsāpa śapanena yā vāgham mūram ādadhe | yā vā rasasya prāsārebhe tokam attu sā z 3 z praticīnaphalo hi tvam apāmārgo babhūvitha | sarvān mac chapathān adhi variyo yāvayās tvam z 4 z yac ca bhrātṛvyaś śapati yac ca jānuś śapati naḥ | vrahmā yan manyutaś śapāt sarvaṁ tad no adhaspadam z 5 z yām te cakrur āme pātre yām sūtre nīllohite | āme mānse kṛtyām yām cakrus tvayā kṛtyākṛto jahi z 6 z dussvapnyam durjivataṁ rakṣo 'bhvam arāyyah | durvācas sarvaṁ durbhūtaṁ tam ito nāśayāmasi z 7 z kṣudhāmāraṁ*

tr̥ṣṇāmāram agotām anapatyatām | apāmārga tvayā vyañ
sarvañ tad apa mṛjmahe z 8 z 3 z

The reading of the ms. in 1d might be defended if the apāmārga is understood as the plant addressed; to emend as above does not make much improvement. In 3cd prāśāyārebhe might be a better reading. Our st. 4 appeared previously Ppp. 2. 26. 4: our st. 5 is a variant of Ś. 2. 7. 2. At the end of 8b our ms. offers nothing decisively helpful; it does seem to offer a basis for the reading suggested.

24

(Ś. 4. 18)

[f.84a4] samā bhūmi[5] s sūryenāhnā rātrī samāvati kṛnomi
satyam ūtaye rasās santu [6] kṛtvā | yo devaṣ kṛtyo kṛtyā harād
aviduṣo grham | vatso dhārur i[7] va mātaram tvam pratyag
upapadyatām | āmā kṛtvā pāpmānañ yas tvayānna [8] jighā-
ñsati | asmādashasyām jagadhārayām bahulāṣ phaṭi [9] kari-
kratuḥ sahasradhāmañ viśākhāñ vyagrīvāñ śāya tvam prati [10]
sma cakṛṣe kṛtyām priyām priyāvaśe hara | yām cakāra na
śa[11] śākha śāśire pādamaṁ aṅgulim | cakāra bhadram asmabhyam
abhagā [12] bhagavadbhyaḥ anayāhas oṣadhyā sarvā kṛtyāyād
aviduṣo [13] grham | yām kṣetṛe cakur yām gobhyo yām vā te
puruṣebhyaḥ | apāmā[14] rgo pa mā iṣṭu pa kṣettriyām śapathāś
ca mat. | apāhyātudhānyo [15] n upa sarvā arāyya apāmārga
pra jayā tvam vyā ati srjasva [16] naḥ z 4 z

Read: samā bhūmis sūryenāhnā rātrī samāvati | kṛnomi
satyam ūtaye 'rasās santu kṛtvā' z 1 z yo devaṣ kṛtyām kṛtvā
harād aviduṣo grham | vatso dhārur iva mātaram tam pratyag
upa padyatām z 2 z āmā kṛtvā pāpmānañ yas tayānyañ jighā-
ñsati | āsmānas tasyām t jagadhārayām bahulāṣ phaṭ karikratu
z 3 z sahasradhāman viśākhāñ vigrīvāñ śāyaya tvam | prati sma
cakṛṣe kṛtyām priyām priyāvate hara z 4 z yām cakāra na
śāśāka śāśire pādamaṁ aṅgulim | cakāra bhadram asmabhyam
abhago bhagavadbhyaḥ z 5 z anayāham oṣadhyā sarvā kṛtyā
adoduṣam | yām kṣetṛe cakur yām gobhyo yām vā te puruṣe-
bhyaḥ z 6 z apāmārgo 'pa mārṣṭu kṣettriyām śapathāś ca yaḥ |
apāna yātudhānir apa sarvā arāyyaḥ z 7 z apamṛjya yātudhānān
apa sarvā arāyyaḥ | apāmārga pra jayā tvam arāyyo ati srjasva
naḥ z 8 z 4 z

In the right margin opposite l. 9 stands *sadvam*, and opposite l. 10 is *raṇā*.

In 3b the reading is hardly as good as that of *Ś*, which has *tenā*°: in 3c it seems highly probable that we have a corruption of the reading of *Ś*, *dagdhāyām*. Our st. 5 is almost identical with *Ś*. 5. 31. 11. I am confident that *adoduṣam* is the Ppp. reading in 6b, and that somehow a copyist's reminiscence of 2b has interfered. In 7b I have restored the reading of *Ś*, but *śapathāṇś ca mat* would be possible. I have ventured to restore the first hemistich of st. 8 from *Ś* for the identity of 7d and 8b would easily cause its omission.

25

(*Ś*. 4. 19)

[f.84a16] *uta evāsy abandhukṛd utāyesya nra jā*[17]*mita |*
uto kṛtyākṛtaṣ prajāṁ abhṛas ivā śchinda vārṣikam vra-[18]
hmanena pariyukto si kaṇvena nārṣadena | senevāṣi tviṣi-[19]
matī na tatra bhayam astu yatra prāpnohy oṣadhe | agrehy
oṣadhīnām [f.84b1] *jyotiṣevāpidhipayam | uta pākasya trātāsy*
uta hantāsu rakṣasaḥ [2] *yad adho devāssurāṇs tvayāgre nir*
akṛnvataḥ tasmād adhi tvam oṣadhe [3] *apāmārgo ajāyata z om*
apāmārgo ajāyata | vibindatī [4] *śataśākhā vibinda nāma te pitā*
| pratyag vibhītam tvam yo asmān a[5]*bhidāsati | asada bhūmyā*
śamabhavat ta dyām eti vr̥hatvacāḥ u[6]*di tvaco vyadhūmayat*
pratyak kartāram r̥chatu | pratyam hiṁ sambabhūyatha [7]
praticīnaphalas tvam pratiṣ kṛtyākṛtyā amum kṛtyākṛtam jahi
| [8] *śatena mā pari pāhi sahasrenābhi rakṣa maṁ indras te*
vī[9]*rudhām pata bhadrojanam ādadhuḥ z 5 z anu z 5 z* [10]
 zz zz

Read: *utāivāsy abandhukṛd utāivāsi nu jāmitā | uto kṛtyā-*
kṛtaṣ prajāṁ abhṛam ivā chindhi vārṣikam z 1 z vr̥hmanena
prayukto 'si kaṇvena nārṣadena | senevāṣi tviṣimatī na tatra
bhayam astu yatra prāpnoṣy oṣadhe z 2 z agra ehy oṣadhīnām
jyotiṣevābhidhipayan | uta pākasya trātāsy uta hantāsi rakṣasaḥ
z 3 z yad ado devā asurāṇs tvayāgre nirakṛnvata | tasmād adhi
tvam oṣadhe apāmārgo ajāyathāḥ z 4 z vibhindatī śataśākhā
vibhindan nāma te pitā | pratyag vibhindhi tvam tam yo asmān
abhidāsati z 5 z asad bhūmyās śamabhavat tad dyām eti vr̥ha-
dvyacāḥ | tad vāi tato vidhūpāyat pratyak kartāram r̥chatu

z 6 z pratyāñ hi sambabhūvitha prācīnaphalas tvam | prācīñ
kr̥tyā ākr̥tyāmum̐ kr̥tyākṛtañ jahī z 7 z śatena mā pari pāhi
sahasrenābhi rakṣa mām | indras te vīrudhām pate bhadra
ojmānam ā dadhat z 8 z 5 z anu 5 z

In st. 1b jāmītā seems possible, though jāmātā might be better in some ways; Ś has jāmikṛt. On prayukto in 2a see Whitney's Translation. In 6c vṛhadvyacaḥ is surely the reading for Ppp.; and in 6c the most plausible course is to follow Ś (as I have done). In 8cd it is entirely possible that our ms. has merely a corruption of the Ś reading, pata ugra. With 7cd cf. Ś. 10. 1. 6cd and Ppp. 1. 47. 3 cd.

26

[f.84b10] *rā dyāvāprthivī śchintāñ mūlam atho śiraḥ viśchi-*
[11] *tya sadyatas pr̥sthās tāñ kanvāthām adhaspadāñ |*

In a read arātyā, in b chintāñ: in c vichidya, probably madhyatas, and perhaps pr̥stis rather than pr̥sthā; in d kr̥vāthām.

idāñ śṛṇu jā[12]tavedo yad amuṣyād vaco mama | rātyāt
sarvam iṣyat pr̥ṇid vṛha[13]tam aśvinām |

In b read amuṣnād, in c arātyās and perhaps iṣaṃ yat: in d aśvinā, and possibly pr̥ṣṭir, although pr̥āśnad would also seem possible.

yā svapne yā carati dorbhūtvā janāñ anu | rā[14]tim indra
tvam jahī tvām agnir iva sādaha |

In a read ca carati, in b dāurbhūtyā, in c arātim, in d tām and sādaha.

śreṣṭho me rājā va[15]ruṇo hañ satyena gacchatu | rātyām
hūtvā santokām ugro devo [16] bhi dāsatu |

In b instead of hañ we might read 'yañ: in c read arātim hatvā santokām, in d 'bhi.

jyeṣṭhā ca yā sinīvālī sapta tisro ty āyā [17] rātim viśvā
hūtāñi ghnantu dāsīs ivāgamī

In b read 'bhy āyan, in c arātim, in d dāsīm ivāgamīm.

somo rā[18]joṣadhībhis sūryācandramasā ubhā | rātyām sarve
gandha [f.86a1]rvā ghañtv apsarasas ca yah |

In a read *rājāuṣ°*, in c *arātiṁ*, in d *ghnantv* and *yāh*.

bhavo rājā bhavāsarvāv indro vāyur vṛhaspatiḥ tvaṣṭā me [2]
dhyakṣaṣ pūṣa te rātiṁ ghnantu suvrata |

Read 'dhyakṣaṣ pūṣa in c, 'rātiṁ and *suvrataḥ* in d.

ye ca devā bhūmicarā ye cāmī divy ā [3] *sate ye ntarikṣa syete*
te rātiyaṁ ghnantu suvrata |

In pāda c the only suggestion I have is *ye 'ntarikṣa āsyante* which does not seem satisfactory: in d read as in the preceding stanza.

yā ceṣitāsurāir devebhir i [4] *ṣitā ca yā* | *atho yā manyor jāyate*
rātrīm harmi vrahmanā z 1 z

Read: *yā ceṣitāsurāir devebhir iṣitā ca yā* | *atho yā manyor jāyate* 'rātiṁ harmi vrahmanā z 9 z 1 z

27

[f.86a5] *tarir me aditsadam mahad yakṣam vṛhad vapuḥ*
viśvāir devāir nirṛtis tanāyu [6] *jā maram mṛtyor ha jāyate* |

Pāda b seems good as given, *mahad yakṣam vṛhad vapuḥ*; pāda a lacks one syllable, and otherwise it is wholly unclear to me: the first three words of c are good, but I can make nothing of the syllables *tanāyujā*; the rest seems possible as it stands, but *maro* might be a better reading.

ammuṁ srṣṭitsāt patho vadadahim vāi rājanta [7] *m ojasā* |
āyuṁśchati gutsam atigmam andayavṇiklīdvirmum ojasā |

In a possibly *amūṁ srṣṭecchāt* is intended, but for the rest of the hemistich I see nothing. In c perhaps *āyūñjati* may be read, which would give a fair pāda: after that I see nothing.

yā [8] *vatī dyāvāprthivī varimṇā yāvad vā sapta sindhavo*
mahitvā tāvatī ni [9] *rrtir viśvavārā viśvasya yā jāyamānasya*
devā |

Read: *yāvatī dyāvāprthivī varimṇā yāvad vā sapta sindhavo*
mahitvā | *tāvatī nirṛtir viśvavārā viśvasya yā jāyamānasya veda*
z 3 z

With pādas ab cf. Ś. 4. 6. 2ab (= Ppp. 5. 8. 1): for pād cf. st. 5.

*viśvasya jāyamānasya de[10]vi puṣṭy asya vāpuṣṭipati tva-
bhūyatha | namo stu te nirṛte mātman asmān parā[11]bhajenā-
param hātayāsi |*

In b I would read puṣṭasya vā puṣṭipatir babbhūvitha: in c read 'stu; mātman ought to mean something like 'do not harm,' but I cannot solve it; for d a possible reading is parabhagenā-param ghātayāsi.

*devīm aham nirṛtir vardhamānaṣ piteva putram va[12]sate
vacobhiḥ | viśvasyāi jāyamānasya devi śiraś-śiraṣ pradīśoro
nudasthe*

For this stanza cf. TS. 4. 2. 5. 4; with nirṛtiṁ pāda a may stand tho TS. has vandamānas; pāda b seems good but TS. has dasaye and KS. damaye. In c read viśvasya yā, and probably devī; but cf. st. 3. In d I would suggest prati sūro 'nu caṣṭe; TS. has sūri vi.

*a[13]panvantam ayajamānam iccha tena sebhyām taskara-
syānu śikṣa svapantam iccha sā tayī[14]bhyām namo stu te nirṛte
aham kṛnomi |*

Read: apanvantam ayajamānam iccha stenasyetyām taskara-syānu śikṣa | svapantam iccha sā ta ityā namas tu te nirṛte aham kṛnomi z 6 z

This stanza also appears TS. 4. 2. 5. 4; there and in other places asunvantam stands in a, and if apanvantam (from pan) is not good, we must restore that here.

*amunvakā nirṛtis saṁjagatsun nāsyā[15]ṣ pitā vidyate nota
mātā | madhyāś cha srāmanu jighāsi sa[16]rvaṁ na devānām
sūryam samāpa |*

In a read asunvakā and saṁjighatsur; perhaps for c we might read madhyāt sā srāmam no jighānsus sarvaṁ: pāda d lacks one or more syllables, and I think it probable that sūriṁ should stand for sūryam; possibly samāpa can stand, but I cannot fit this pāda into the rest successfully.

*yad asya pāre tamamaś śukraṁ jyo[17]tir ajāyata | sa naṣ
parṣad ati dviṣo gne vāiśvānara dyumat.z 2 z*

Read: yad asya pāre tamasaś śukraṁ jyotir ajāyata | sa naṣ parṣad ati dviṣo 'gne vāiśvānara dyumat z 8 z 2 z

This appears TS. 4. 2. 5. 2, and we may also compare Ś. 6. 34. 5.

28

(cf. Vāit. 10. 17)

[f.86a18] *pramucyamāno bhuvanasya gopa paśun no tra prati bhāgam etu | agnir yajñam trivṛtaṁ [f.86b1] saptatantum devaṁ devebhyo havyaṁ vahatu prajānan. z yū te daṁṣṭrā sudhayāu ropayīṣṇū [2] jihvayete dakṣiṇā saṁ ca paśyata | anāṣṭraṁ naṣ pitaras tat kṛnotu yūpe [3] baddhaṁ pra vi mucyamā yad annaṁ aklistvas tam avi juṣṭaḥ parehir indrasya goṣṭha [4] m api dhāva vidvān. | dhīrāmas tvā kavayas saṁsrjantv iṣam ūrjaṁ yajamā [5] nāya matsataḥ ṛṣibhiḥ tvā saptabhir attrināhaṁ pratigrhṇāmi bhuvane syone | [6] jamadagniḥ kaśyapas svādv etad bharadvājo madhv annaṁ kṛnotu z pratigrahitre go [7] tamo vasiṣṭho viśvāmitro dadarśe śarma yaśchāt. | yan no agram haviṭha jagāmā [8] nvasya putram uta sarpiṣo vā | yad vā dhanam vahator ājagāmāgniḥ tad dhotā su [9] hataṁ kṛnotu | yad ājyaṁ prati jagrāha yaś ca vṛiṇa ajaṁ candreṇa saha ya [10] j jagāma | vrhaspatir haviṣo no vidhartā mā no hiṁsīt saha go aśvo viṣā [11] ca | agniṁ nayatu pratigrhṇātu vidvān vrhaspatih praty etu prajānan. indro [12] marutvān suhataṁ kṛnotv avāikṣavaṇnam anamīvo stu | yan no dudur varām aksitīm [13] vasu yad vā dālpam upanenena naṣ saha | yad dhūvyetaṁ saha vrṣṭanotā agni [14] ṣ tad dhotā suhataṁ kṛnotu | yan naṣ śālām viśvabhogām imām dadur grhaṁ vā yo [15] ktram saha krtyota yad vāharam upanāyena devā | agniḥ tad dho suhataṁ kṛnotu z [16] z 3 z*

Read: *pramucyamāno bhuvanasya gopa paśur no 'tra prati bhāgam etu | agnir yajñam trivṛtaṁ saptatantum devo devebhyo havyaṁ vahatu prajānan z 1 z yāu te daṁṣṭrā sudihāu ropayīṣṇū jihmāyete dakṣiṇā saṁ ca paśyataḥ | anāṣṭraṁ naṣ pitaras tat kṛnota yūpe baddhaṁ pra vi mucyamā yad annam z 2 z akliṣṭas tvam abhi juṣṭas parehindrasya goṣṭham api dhāva vidvān | dhīrāras tvā kavayas saṁsrjantv iṣam ūrjaṁ yajamānāya matsataḥ z 3 z ṛṣibhiḥ tvā saptabhir atrināhaṁ pratigrhṇāmi bhuvane syone | jamadagniḥ kaśyapas svādv etad bharadvājo madhv annaṁ kṛnotu | pratigrahitre gotamo vasiṣṭho viśvāmitro dadarśe śarma yacchāt z 4 z yan no agram haviṣa ājagāmānnasya pātram uta sarpiṣo vā | yad vā dhanam vahator ājagāmāgniḥ tad dhotā suhutaṁ kṛnotu z 5 z yad ājyaṁ prati jagrāha yaś ca vṛiṇ ajaṁ candreṇa saha yaj jagāma | vrhaspatir haviṣo no vidhartā*

mā no hiṁsīt †saha go aśvo viṣā ca z 6 z agnir nayatu prati-grhṇātu vidvān vṛhaspatiḥ praty etu prajānan | indro marutvān suhutaṁ kṛṇotv avekṣyānam anamīvo 'stu z 7 z yan no dadur varām akṣitīm vasu yad vā kalpam †upanenena nas saha | yad vāvyayatvaṁ †sahavṛṣṭanotā agniṣ †ad dhotā suhutaṁ kṛṇotu z 8 z yan naś śālām viśvabhogām imām dadur grhaṁ vā yoktraṁ saha kṛtyota | yad vāharan upanāyena devā agniṣ †ad dhotā suhutaṁ kṛṇotu z 9 z 3 z

The arrangement of st. 4 is open to doubt, and its first two pādas might perhaps better be taken with st. 3 except that Vāit. shows no trace of them; the rest of st. 4 has appeared Ppp. 2. 28. 4, a hymn which has part of Ś. 6. 71: in Ppp. 2. 28. 4a svādv should be read. In 6d a possible reading would be hiṁsīd mā gāur. In 8c avyayatvam is given to match its equivalent akṣitim; but 8a would seem better if we read varam akṣitaṁ vasu.

29

[f.86b16] *sūryavarca iti yat suśravāhaṁ yena prajā jyotira-grās cara*[17]*nti some varco yad goṣu varco mayi devā rāṣṭra-bhṛtas tad akram.z*

In a read yac suśravāhaṁ, in d akran: pāda c lacks at least one syllable, and it would be helped by the insertion of yat before some.

yajñe varco [18] *marutoś cad adṛhaṁ vāyuh paśūn prjat sam bhagena gandharvāṇām apsarasām* [f.85a1] *yad asmāi*

In a it is possible to read maruto yad adṛhaṁ, in b I would read aprīcat for prjat: at the end of c it seems necessary to read yad varco; for pāda d mayi ° ° ° .

yajñe varco yajamāne ca varco yad ābhiṣikte rājani yaś ca varcaḥ surā[2]*yām varco dhi yat.* |

In b read abhiṣikte rājani yac; in c I can only suggest 'dhi yad as indicated in the transliteration; supply pāda d as in st. 1.

rathe varca rathavāhane ca varco iṣudhāu varcaṣ kavaca eva[3]*rcaḥ aśveṣu varcā z*

At the end of a read varca and after rathe read varcā. The ms. probably intends pāda c to be completed so as to read aśveṣu varca 'dhi yad, followed by mayi ° ° ° .

sabhāyām varcas sumityām ca varco vadhvām varca uta varco vare[4]ṣu | dakṣiṇāyām varco dhi yat.

Read: *sabhāyām varcas samityām ca varco vadhvām varca uta varco vareṣu | dakṣiṇāyām varco 'dhi yad mayi ° ° ° z 5 z*

sinhe varcā uta varco vyāghre vrke varco madhvā[5]re ca varcaḥ | śayane varcaḥ patunām yad vabhūva mayi |

In a read *varca uta*; in *b* it would seem that *madhvāre* is a fourth animal, but I cannot do anything with it on that basis, and have thought it possible to read *vrkṣe* and *madhvāmre*. In *c* *śayane* seems good, but *patunām* (or *pattanām*) I cannot solve; *patūnām* does not seem very good; read *babhūva* in *c*, and for *d* *mayi ° ° °*.

hiranyavarcaṣas uta ha[6]stivarcaṣam saṅgramam yad yat. jighān varca āhuḥ kṛṣyām kṣettrarsayo nvānadhur ma[7]yi | devā rāṣṭrabhṛtas tad akran.

In a read *°varcaṣam uta*; in *b* *saṅgrāmaṁ* is clear and I think we should read *yad yad* rather than *yudhyat*, but for *jighān* I have no suggestion although it is clearly from *han*. In *c* read *kṣetra ṛsayo 'nvānādhur*, and for *d* *mayi ° ° °*.

mayi varco mayi sruvo mayi dyumnam mayi tvi[8]ṣiḥ adhaspadaṁ prdanyavo haṁ bhūyāsam uttamaḥ z 4 z

Read: *mayi varco mayi śravo mayi dyumnam mayi tviṣiḥ | adhaspadaṁ prṭanyavo 'haṁ bhūyāsam uttamaḥ z 8 z 4 z*

30

(Ś. 3. 24)

[f.85a8] *payasvati[9]r oṣadayaṣ payasvān māmakaṁ vacaḥ atho payasvatām paya ā harāmi saha[10]rāmi sahasrasā ahaṁ veda yathā payaś cakāra dhānyam bahuḥ sambhṛtvā nāpa [11]yo vedas ta vaṁ yajāmahe sarvasyāyaścāno grhe | yathā dyāuś ca pṛthivī ca ta[12]sthatu varuṇāya kaṁ | evaṁ sphāti nī tanosi mayāreṣu khaleṣu ca | yathā rū[13]pāś catadhāras sahasradhāro akṣataḥ evā me astu dhānyam sahasradhāram akṣataṁ [14]śatahastā samāharaḥ sahasrāiva saṁgiraḥ yatheyā sphātīr āyasi kṛtaśca kā[15]ryasya ca | imā yāś pañca pradiśo mānavāiṣ pañca grṣṭayah sarvāś śambhūr ma[16]yobhuvo vṛse śapaṁ nadīr ive | iha sphātīm sam ā vrhān iha sphātīr oṣadhīnām [17]devānām*

uta saṅgama ihāivāśvinorasto dvāparasyoruta z tisro mātṛā
ga[18]ndharvānām catasro gr̥hapatnyāḥ tāsām yā sphātivartamā
tayā tvābhi sarśāma[19]si | jyēṣṭhasya tvāṅgirasya hastābhyām
ā rabhāmahe | yathāsad bahudhānyam a[f.85b1]yakṣmaṁ bahu-
pūruṣam.z 5 z anu 6 z

Read: payasvatir oṣadhayaḥ payasvan māmakaṁ vacaḥ | atho
payasvatām paya ā harāmi sahasraśaḥ z 1 z ahaṁ veda yathā
payaś cakāra dhānyam bahu | sambhrtvā nāma yo devas taṁ
vayaṁ yajāmahe sarvaśyāyajvano gr̥he z 2 z yathā dyāuś ca
pṛthivī ca tasthatur varuṇāya kam | evaṁ sphātiṁ ni tanoṣi
mathaneṣu khaleṣu ca z 3 z yathā rūpaś śatadhāras sahasradhāro
akṣataḥ | evā me astu dhānyam sahasradhāram akṣatam z 4 z
śatahasta samāharaḥ sahasrāiva saṁkiraḥ | yatheyam sphātir
āyasi kṛtasya kāryasya ca z 5 z imā yāḥ pañca pradiśo mānaviḥ
pañca kṛṣṭayaḥ | sarvāś śambhūr mayobhuvo vṛṣṭe śāpaṁ nādīr
iveha sphātiṁ sam ā vahān z 6 z iha sphātir oṣadhīnām devānām
uta saṅgamā | †ihāivāśvinorasto dvāparasyoruta† z 7 z tisro
mātṛā gandharvānām catasro gr̥hapatnyāḥ | tāsām yā sphāti-
vartamā tayā tvābhi mṛśāmasi z 8 z jyēṣṭhasya tvāṅgirasya hastā-
bhyām ā rabhāmahe | yathāsad bahudhānyam ayakṣmaṁ bahu-
pūruṣam z 9 z 5 z anu 6 z

Our st. 3 has no parallel, st. 4 varies considerably from Ś, st. 7
has no parallel, and st. 9ab has none; st. 9cd = Kāuś. 20. 5cd.
For 7cd I can get nothing. In 5b we might perhaps keep saṁgi-
rah; and in 6b possibly gr̥ṣṭayaḥ, but I doubt if a variant from
Ś is intended in either case.

31

[f.85b1] abhyāsarat prathamā dhokṣamā[2]nā sarvān yajñān
bibhṛati vāiśvadevi | upa vatsam sṛjad vācyate gāur viśṛṣṭa[3]s
sumanā himkṛṇomi |

This stanza and the next two appear in Kāuś. 62. 21. In a
read atyāsarat and dhokṣyamānā; in c probably sṛjata as in
Kāuś. is intended, and vāsyate is to be read; the ms. suggests
nāur for gāur. In d we should probably read with Kāuś.
vyasṛṣṭa and °kṛṇoti.

badhān dhehi mavi dhehi bhuñjanti nadya gor upaśi[4]da
dugdhi z irām asmā odanam pinvamānāḥ kilālam ghṛtaṁ madhu-
manva[5]bhāgaṁ |

Read: badhāna vatsam abhi dhehi bhuñjati nijya godhug
upa sīda dugdhi | irām asmā odanaṁ pinvamānā kilālaṁ ghr̥taṁ
madamann abhāgam z 2 z

This is the reading of Kāuś. and I think our ms. offers no real
variant: the margin suggests idām for irām.

*sā dhāvatu yamarājñasavatsā sukr̥tām pathā prathameha
dattā | ato[6] vr̥ṣṭidattā prathamenaś āgaṁ vatsena gām saṁ sṛja
viśvarūpā |*

In a read yamarājñas savatsā. In c atho 'vr̥ṣṭidattā seems
possible; Kāuś. has atūrṇadattā; read prathamedam, and in d
read viśvarūpām.

*prathameda[7]m āgaṁ pūrvamād atra etābhy asmiṁ loka
madhya u tvā dadāti semaṁ dhenoh pra[8]thamaṁ pārayāsi
śraddhayā dattā parame vyoman. |*

In a pūrvasmād seems probable, followed perhaps by atrai-
tābhy asmiṁ loka madhya. In c dhenoh is probable.

*jānīhasmi saṁsthiya [9] dhenavo gopatiṁ yas tvā dadātu
prathama svadhāvān pūrvā hi tatra sukr̥taṁ pare[10]hy atāṣaitā
rājasas parastāt. |*

For the beginning of pāda a yājñīyo 'smi is the only sugges-
tion I have; saṁstīrya follows (the ms. correcting ya to rya)
and probably dhenoh. In b read dadāti prathamā svadhāvān.
In d atyeṣayitā may be possible; read also in d rajasas.

*ati dhenur anadvāham anyannad yayoṣ kramiṁ [11] ati vatsā-
nām pitara ṛṣabhaṁ prati sāsurat.*

Pāda a seems correct; it looks as if aty might stand at the
beginning of b and possibly kramiṁ at the end, or krame. In c
I think pitaram would be better; in d read sāsurat.

*jyotiṣmatī prathamā yā[12]hi sūre sonas te dhenavo patayo
bhavantu | sapta tvā sūryānvātāpantīr imaṁ dhā[13]ma sātī
saras parācāṇ z*

In b we may probably read syonās te dhenoh; in c sūryā anv°;
in d idām would seem better than imaṁ.

*dhātṛe sūtraya mahyaṁ dadhānobhāu lokāu bhuñja[14]tī vi
kramasva | iṣam ūrjaṁ dakṣiṇām saṁvasānā bhagasya dhārām
ava[15]se pratīma*

I doubt if sūtraya can stand in a, and would suggest sotre. In d bhāgasya is probably the reading, with pratīmaḥ at the end. A pāda similar to our c occurs VS. 12. 57c and elsewhere.

sahasrāṅga śataṁ jyotiyaṁ hy asyā yajñiyasya paprir amṛta svargā [16] *sā nāitu dakṣiṇā viśvarūpā ahīnsantī pratiḡrṇīma enām z 1 z*

Read: *sahasrāṅgā śataṁ jyotiśāṁ hy asyā yajñiyasya paprir amṛtā svargā | sā na āitu dakṣiṇā viśvarūpāhīnsantīm prati-ḡrṇīma enām z 9 z 1 z*

32

(Ś. 4. 16)

[f.85b17] *ye te pāsā varuṇā saptasaptatis tredhā tiṣṭhanti ruṣatā ruṣantaḥ chinadya* [18] *sarve anṛtaṁ vadantaṁ yas satyavāg yadi tuṁ srjāmi |*

In a read *varuṇa*, in c read with the Roth-Whitney ed. of Ś *sinantu*: in d read °vādy ati taṁ srjāmi. The margin corrects to *chinabhya*.

iha spaśaṣ pa caranti[19] *me syāma sahasrākṣā ati paśyanti bhūmim | so syannataṁ pra munāti kaś cana ssa* [f.87a1] *mucyate varuṇasya pāsāt. |*

This varies considerably from verse 4 of Ś. In a read *pra* and 'sya (for syāma), in b *bhūmim*: for pāda c we may read *yo 'sya nākaṁ pra mināti kaś cana*, or something very like that, for the meaning of Ś. 4a is probably here. In d read *na sa ° °*. The margin corrects to *mudyate*.

utayam asya prṥhivī samīci dyāur vrhati[2] *r antarikṣam | uto samudro varuṇasya kakṣār utāsminn alpa uḍake namaktāḥ |* [3]

Read *uteyam* in a, in b *vrhaty urv antarikṣam*. In c I would read *samudrāu* and *kakṣāv*; but also without changing *samudro* we might read *kukṣāv*, getting thus a meaning which might stand. In d read *niṣaktāḥ*.

yas tiṣṭhati manasā yaś ca vācati yo nilāyaṁ carati yaḥ pralāyam dvāu ya[4] *d avadatas samniṣadya rājā tad veta varuṇas trtīyā*

Read: *yas tiṣṭhati manasā yaś ca vañcati yo nilāyaṁ carati yaḥ pralāyam | dvāu yad vadatas samniṣadya rājā tad veda varuṇas trtīyaḥ z 4 z*

*sarva tad rājā varuṇo vi [5] caṣṭe yad antarā rodasi yaś para-
stāt. | samśātaś ca nimiṣo janānām akṣān [6] na stvaghnī bhu-
vanā mamīte |*

In a read sarvaṁ, in b yat parastāt: in c saṁkhyātā asya, in d akṣān na śvaghnī.

*tvam eva rājan varuṇa dhattā devānam asi viśvarū[7]pāḥ
duścarmās tad asaś piśaṅgo yaś satyāṁ vācam anṛtena hanti |*

Pāda a seems good, but two more syllables would make it better; in b read dhattā devānām. In c the first word is probably some form of duṣkarman and piśaṅgo is perhaps correct, but it may be that śṛṅgo is here; pāda d is correct. This stanza has no parallel.

*yaś sāmāmyo [8] varuṇo yo vyāsyō yaś cyamdecyo varuṇo yo
videcyah | yo dāivyo varuṇo yaś ca mā[9]nuṣas sarvāṁs tvetāni
prati muñcāmy atra |*

Read: yaś sāmāmyo varuṇo yo vyāmyo yaś saṁdeśyo varuṇo yo videśyah | yo dāivyo varuṇo yaś ca mānuṣas sarvāṁs tvayi tāt prati muñcāmy atra z 7 z

ś. has our pādas abc as its vs. 8; our d represents its vs. 9.

*śatena pāsāir varuṇābhi dhehi mā [10] te mody anṛtavā
nṛcakṣah | āsthāṁ jālma udanam śaṁsītyā kośevāvadhrīḥ pa-[11]
rīkṛtyamānā |*

In b read mody anṛtavāṇ; for cd read āsthāṁ jālma udaram śraṁśayitvā kośa ivābandhraḥ parīkṛtyamānaḥ. I think iva vadhrīḥ is not probable, if indeed possible.

*uto cit prapātayacito tad api nahyasi | uto tad asya gam kṛtvā
[12] rājā varuṇīyate*

It would seem possible to read here uto acit prapātayad uto ° ° : in c if we may read asyāgam it would seem fairly good; in d read varuṇa iyate.

*āinaṁ chinadsya varuṇo nataṁ kaśipune yathā | mūle tasya
vr[13]ścati ya enaṁ pra mimīṣati z 2 z*

Read: enaṁ chinatti varuṇo naḍam kaśipune yathā | mūlam tasya vṛścati ya enaṁ pra mimīṣati z 10 z 2 z

For pāda b cf. ś. 6. 138. 5.

33

(Ś. 6. 133-135)

[f.87a13] *ya imām devo mekhalām ā*[14]*babandha yas
sumnāha yamāha yojah yasya devasya pradiśā carāmi sa* [15]
phāram ṛschāt sāu mā vi muñcā

For b read yas samnanāha ya u mā yuyoja : in c read pradiśā :
for d read sa pāram ṛschāt sa u mā vi muñcāt.

āhuta ṛṣiṇām asy āyudham pūrvā vṛdhasya prā[16]*ṣṇatī
avīraghnī bhava mekhale* |

Doubtless pāda a is to be restored from Ś, āhutāsy abhihuta :
in c read prāṣṇatī, and in d vīraghnī.

mṛtyor aham vrahmacāryād asmi bhūtām niryājam [17] *puru-
ṣam yamāya* | *tam āyan vrahmaṇā tamasā śramenānāinam
mekhalayā si*[18]*nāmi z*

Read : mṛtyor aham vrahmacārī yad asmi bhūtām niryācam
puruṣam yamāya | tam āyan vrahmaṇā tapasā śramenānāyāinam
mekhalayā sināmi z 3 z

ayan vajras talpayatām vratena | *āvāsyā rāṣṭram ava hantu
jīvaṁ ki*[19]*nantu skandhā prṣanātūṣṇiḥa*

In a read tarpayatām; Whitney suggests mṛtena for vratena.
The colon is to be removed and then we read vratenāvāsyā. For
c read śṛṇātu skandhām pra śṛṇātūṣṇiḥ; no trace of pāda d is
in the ms., but we will probably be safe in restoring it from Ś,
vṛtrasyeva śacīpatih.

adharo bhram adharo bhreṇa gūḍhat pṛthivyā mo-[f.87b1]
srpat. | *vajrenāvahatu śrayām*

Read : adharo 'bhram adharo 'bhreṇa gūḍhaḥ pṛthivyā
motsrpat | vajrenāvahataś śayām z 5 z

yo janāti tam anv iccha yo janāti tam i[2]*j jahi* | *jinato vajra
sāyakah śimaṇcam anvacam anu pātaya*

Read jināti in a and b, iccha in a : in c sāyaka śimantam, in
d anvaṇcam.

yad uṣṇāmi ba[3]*lam kurve vajram anu pātayati* | *skandhām
amuṣya śātayaṁ vṛtrasyeva śacīpatih* | [4]

In a read aśnāmi, in c śātayan, in d vṛtrasyeva.

*yat pīvāmi saṁ pīvāmi samudrāiva saṁpiva | prāṇān amuṣya
saṁpivāṁ saṁpi[5]vāmy ahaṁ pivāṁ |*

Read: yat pibāmi saṁ pibāmi samudra iva saṁpibah | prāṇān
amuṣya saṁpiban saṁpibāmy ahaṁ pibam z 8 z

*yad girāmi saṁ girāmi samudra iva saṁgira prāṇān a[6]mu-
ṣya saṁgiraṁ saṁ girāmy ahaṁ giraṁ z*

In b read saṁgiraḥ, in c saṁgiran, in d giram.

*śraddhāyā duhitā tapaso dhi jātā sva[7]sarṣṇāṁ bhūtakṛtām
babhūva | sā no mekhale patim ā dhehi medhātho no dhe[8]hi
tapa indriyaṁ ca |*

In a read 'dhi, in c matim and medham, in d atho.

*yām tvā pūrve bhūtakṛta ṛṣayaḥ | pari medhire mā tvam [9]
pari ṣajasva mā dīrghāyutvāya mekhale z 3 z*

Read: yām tvā pūrve bhūtakṛta ṛṣayaḥ pari bedhire | sā tvam
pari ṣvasvasva mā dīrghāyutvāya mekhale z 11 z 3 z

In Book 19, as here, our ms. presents as one hymn material
which in Ś constitutes several hymns; in fact in Book 19 that
seems to be the regular condition.

34

[f.87b9] *ayaṁ te śvaśrū[10]r vadatu śvaśuras te aśantaram |
devāt te abhiśocanam vrahma vidveṣanam kr[11]tam |*

In pāda a iyaṁ seems necessary; read aśantaram in b. I have
not been able to grasp the intent of this hymn, so that my sug-
gestions are made almost blindly.

*ā krandaya ululā kur vāca ā dhehy apriyam śiro lipsamy aha-
stā[12]bhyām keśān te abhiśocanam |*

In a read kar, taking ululā as acc. plural; cf. LŚ. 4. 2. 9.
In b read vaca: in c lipsāmy would seem good: in d perhaps
keśāt rather than keśān, but neither one seems very good.

*ye keśāyoṣ pratidhita kurīraṁ yūpaṣaḥ a[13]tho ye te svā
saṁti sarve te abhiśocanam |*

In a it might be possible to read keśāyoṣ pratiditāḥ; in b I
think it likely that we must understand ya followed by a word
beginning with upa. In c svās santi may seem good, or śvasanti.

*apa trisamṛdhānā durmā[14]d idam kṛṇomi te | atho yat te
samvāsas sarvaṁ tat tē abhiśocanam |*

For pāda a I can suggest nothing; in b I would suggest durmāditam. Pādas cd can stand, I believe.

*a[15]rkamadbhis prapatāto municakṣuṣ kṛṇomi te | atho
śvabhyo rāyabhyaṣ prati ssa [16] gaganam kuru |*

Pāda a can stand, prapatāto = prapata + atas; b is also good: in c read 'rāyabhyaṣ, in d sma.

*ut tiṣṭhare palāyasva sarīcīnām padam bhava | atho u[17]d
akāryam kurv āsām sam arṣi muṣkayoḥ z*

In a read tiṣṭhāre, in b marīcīnām: the rest seems possible.

*upakṣedābhi cālāya vā[18]tas tūlam ivijaya | dadbhissindhu-
sya bāhvor dadhy asūravastuve |*

In pāda a it is clear that we have abhi cālāya, but the rest is not clear; I have thought of upakṣetā: at the end of b I would read ivāijayat. It may be that pāda c begins with adbhīs, and that sindhoś ca should stand for sindhusya. For the rest I see nothing.

*abhi [19] gāya śābaleyaṁ śronēyaṁ sādhu-vāhanam kālām
syākīś cara kṛddhy ā[f.88a1]yataṣ prati cālāya |*

In a we might read śābaliyaṁ, in b śronīyaṁ. In c kṛddhy is all I can see; pāda d seems good.

*hr̥ṣvapuśchaṁ vātarohaṁ manojavam | taṁ te ratham sambha-
ranti devā[2]s tenā carāmi patim iśchamānā z 4 z*

Read: * * hrasvapucchaṁ vātarohaṁ manojavam | taṁ te ratham sambharanti devās tenā carāmi patim icchamānā z 9 z 4 z

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(cf. Ś. 4. 39; TS. 7. 5. 23; KSA. 5. 20)

*[f.88a2] agnaya sam anamaṁ tasmāi pṛthi[3]vyās sam anamaṁ
yathāgnaye pṛthivyās sam anamaṁ evā mahyam samnamas sam
namantu z [4] vittim bhūtim puṣṭim paśum vrahma vrāhmaṇa-
varcasam sannates tu samnenematas svāhā z [5] vāyave sam ana-
maṁ tasmāntarikṣeṇa sam anamaṁ yathā vāyave ntarikṣeṇa sam
a[6]namaṁ | sūryāya sam anamaṁ tasmāi divas sam anama yathā
sūryāya divā sam ana[7]maṁ | candrāya sam anamaṁ tasmāi*

nakṣattrāis sam anamañ yathā candrāya nakṣattrāis sam a-[8]
 namañ | somāya sam anamañ tasmā oṣadhībhis sam anamañ
 yathā somāyāuṣadhī[9]bhis sam anamañ | yajñāya sam anamañ
 tasmā dakṣiṇābhis sam anamañ yathā yajñā[10]ya dakṣiṇābhis
 sam anamañ samudrāya sam anamañ tasmāi nadībhis sam ana-
 mañ [11] yathā samudrāyaya nadībhis sam anamañ | indrāya
 sam anamañ tasmāi vīryeṇa [12] sam anamañ yathendrāya
 vīryeṇa sam anamañ | vrahmaṇe sam anamañ tasmāi vrahmacā-
 [13]ribhis sam anamañ yathā vrahmaṇe vrahmacāribhis sam
 anamañ | devebhyas sam ana[14]mañ tebhyo amṛtena sam
 anamañ yathā devebhyo amṛtena sam anamañ | prajāpataye
 sa[15]m anamañ tasmāi prajāpatibhis sam anamañ yathā
 prajāpataye prajāpatibhis sam anamañ [16] neyā mahyaṁ
 saṁnnamas saṁ namantu | vittim bhūtim puṣṭim paśum vrahma
 vrāhmaṇavarcaśaṁ | [17] saṁnates tu saṁnenematas svāhā |
 sapta sannamo śtamī dhīti sādhanī saṁkāmā[18]n adhvaṇiṣ kṛṇu
 saṁjñānam astu no dhane z 5 anu 7 z

Read: agnaye sam anaman tasmāi pṛthivyā sam anaman
 yathāgnaye pṛthivyā sam anamann evā mahyaṁ saṁnnamas
 saṁ namantu | vittim bhūtim puṣṭim paśum vrahma vrāhmaṇa-
 varcaśaṁ | saṁnates tu saṁnenematas svāhā z 1 z vāyave sam
 anaman tasmā antarikṣeṇa sam anaman yathā vāyave 'ntarikṣeṇa
 sam anamann evā ° ° ° ° z 2 z sūryāya sam anaman
 tasmāi divā sam anaman yathā sūryāya divā sam anamann evā
 ° ° ° ° z 3 z candrāya sam anaman tasmāi nakṣatrāis sam
 anaman yathā candrāya nakṣatrāis sam anamann evā ° ° ° °
 z 4 z somāya sam anaman tasmā oṣadhībhis sam anaman yathā
 somāyāuṣadhībhis sam anamann evā ° ° ° ° z 5 z yajñāya
 sam anaman tasmāi dakṣiṇābhis sam anaman yathā yajñāya
 dakṣiṇābhis sam anamann evā ° ° ° ° z 6 z samudrāya
 sam anaman tasmāi nadībhis sam anaman yathā samudrāya
 nadībhis sam anamann evā ° ° ° ° z 7 z indrāya sam
 anaman tasmāi vīryeṇa sam anaman yathendrāya vīryeṇa sam
 anamann evā ° ° ° ° z 8 z vrahmaṇe sam anaman tasmāi
 vrahmacāribhis sam anaman yathā vrahmaṇe vrahmacāribhis
 sam anamann evā ° ° ° ° z 9 z devebhyas sam anaman
 tebhyo amṛtena sam anaman yathā devebhyo amṛtena sam ana-
 mann evā ° ° ° ° z 10 z prajāpataye sam anaman tasmāi
 prajāpatibhis sam anaman yathā prajāpataye prajātibhis sam
 anamann evā mahyaṁ saṁnnamas saṁ namantu | vittim bhūtim

puṣṭim paśum vrahma vrāhmaṇavarcaśam | samnates tu †samne-
nematas svāhā z 11 z sapta samnamo 'ṣṭamī dhitis sādhanī |
sakāmān adhvanaṣ kṛṇu samjñānam astu no dhane z 12 z 5 z
anu 7 z

Kāuś. 20. 19 has vittim bhūtim puṣṭim prajāṁ paśūn annam
annādyam iti; we may regard our corresponding phrase ending
°varcaśam as good, but that which follows thereafter is unclear.
Our 12c = VS. 26. 1a.

36

[f.88a18] *ye vārunā.u[19]ta nāinryas patinām virudhām ca
pāsāt. | ye bhūmā bhūmyā adhi sambabhū[f.88b1]vus te tvā na
hyamām śivatātir astu z*

In pāda a we might read nāirayās, in b pathinām and pāsāḥ.
In c read bhāumā, in d hiṁsān and astu te. The repetition of
pāda d assures us fairly well of the form intended, but na with
the subjunctive is not good. The first two pādas would be helped
a little by inserting ye after uta and again before pathinām.

ye antarikṣe divi ye ca pāsān ye vicr [2] tātir astu te |

Read: *ye antarikṣe divi ye ca pāsān ye vicr* * * | * **
* * *te tvā na hiṁsān śivatātir astu te z 2 z*

It is clear that the ms. has dropped an entire line; I have
restored part of pāda d. Perhaps vicr* should be completed
as a verb form from vi + crt.

*ye te mānuṣaṁ manuṣyāḥ śrapanta yām vā hotrān pitṛnyām ā
rabha[3]nte | samāmyo varuṇo yā jagāma sa tvā na hiṁsā
śivatātir astu te |*

In a read śrayante, in b hotrām pitṛnyām: in c ya ā, in d
hiṁsāc.

*apra[4]pragā hyari vā sasāmiṣe gñim ā rebhiṣe yadi vā sami-
ddham vidvān avidvā[5]n anṛtaṁ yad ivakta tvā sa tvā na siṁsān
śivatātir astu te |*

Compare with the almost identical passage seven lines below:
I think we may read for a apapragā yadi vā samāmiṣe, in b read
'gñim: in c yad uvaktha, in d tā tvā na hiṁsān.

*yat praticyām dviṣataṣ pr[6]ṣṭām sa peśyām jāmapātre pa
pāpātha | hiṁas satvenānṛtaṁ yad ivakta tvā na hiṁ[7]sān
śivatātir astu te z*

It would seem that the first three words of pāda a are good, but for *prṣtām* sa I can get nothing plausible: for b *peṣyam* *cāmapātre* 'pa papāta may be possible. In cd we may read *hinas satyenānṛtaṁ yad uvaktha tā tvā* ° ° .

yam grāvānam ārabhanta yenānsūn abhiṣunvanti so[8]*maṁ* |

In a read *ārabhante*, in b *abhiṣunvanti*. It looks as if *soma* were the first word of a pāda c. These two pādas do not seem to me to be in place in this hymn.

yad vā dhanam dhanakāmo nireṣe kṣettram gām aśvam puruṣam vobhayādatra tvā [9] *na hiṁsān śivatātir astu te* |

In b read *kṣetram*, in bc *vobhayādat te tvā* ° ° .

ye bānavantaṁ sudhiyam jaghāna tasyāśma [10] *śānād adhi loṣṭābhṛtasya tvā na hiṁsān śivatātir astu z*

In a read *yo*, in b perhaps *tasyāśmā* and *loṣṭābhṛtas*: for c I think we should read *sa tvā na hiṁsāc* ° ° .

apapragā [11] *hr̥di vā vyāmiṣe gñim ā rebhiṣe yadi vā samiddham* |

It is possible that the ms. intends here a stanza almost identical with st. 4: on that assumption we could supply pādas cd as in st. 4. In a read *yadi*, in b 'gnim.

jāmyā hastam ghr̥[12]*tam ā rebhiṣe dhanur voddhatam ita cakramitvā manyur vo rājño varuṇasyā* [13] *mimattha sa tvā na hiṁsān śivatātir astu te z 1 z*

Read: †*jāmyā hastam ghr̥tam ā rebhiṣe dhanur voddhatam itthā caṅkramitvā* | *manyur vā rājño varuṇasyā mamantha sa tvā na hiṁsāc śivatātir astu te z 10 z 1 z*

Pādas cd seem good, but the first two do not seem to me at all satisfactory; if *yadi* were read for *jāmyā* it would be a great improvement. But the entire hymn is so unclear that only the most evident corrections can carry conviction.

37

[f.88b13] *yā te prajāpī*[14]*hatā parābhūd yonir vā mugdhā nihatā piśācāi* | *astrānam vādhi pa ti*[15]*ṣṭhāmi ghoram sarvam tat te vrahmaṇā pūrayāmi*

Read in a *prajāpihatā*, in b *piśācāiḥ*; in c read *astrāṇām vādhy upatiṣṭhāsi*. Pāda a = Ppp. 3. 39. 1a.

*yady asyāḥ prajā varunena śu[16]ṣpitā dunnāmāno vā ṛtvi-
yam asyārhaṇti | dveṣāt sahapatnyād vidhi ca[17]kramasyā
yatvān rāṣṭrā apa hantv āgñiḥ*

Perhaps śuṣṣhitā may be accepted as an equivalent of gumphitā; in b read durnāmāno and asyā riphanti: in c read sāpatnyād yadi cakrāmāsyāi: for the first two words of d yatvā naṣṭān might be possible; read agñiḥ.

*yasyās striyā yadi lakṣmīr apu[18]tryā garbho vāsyā yātu-
dānāḥ parābhṛtār duṣṣvaptriṃ vā yat svapatī tidarśe i[19]ndrā-
gnī tat kṛṇutām bhadrayā punaḥ*

In a read asyās, in b yātudhānāḥ parābhṛtaḥ: in cd dussvapnyam and dadarśendṛā°.

*devāinasād yadi putram na vindase manu[f.89a1]ṣyānām vā
tvā śavathe rarādha | pitṛbhir vā te adhi sūtaḥ pratiṣṭhita idam
tan ni[2]ṣṭanvo janayāsi putram z*

In b read śapatho.

*vāiśvānaro janmanā jātavedāḥ prajāpatīḥ siṃca [3] reto syām
bādhethā dveṣo nirṛtiṃ parācāḥ putrinīm imām prasvaṃ kṛṇotu*

Read siṃcatu reto 'syām in b, and bādheta in c; this seems to be the simplest way to reconcile the variation of persons in the verbs. With c cf. Ś. 6. 97. 2c.

*īha [4] prajāṃ agnir asī dadābhy ādityebhir vasubhis saṃvi-
dānaḥ viśve devā havam ā[5]yantu māi saṃ putro syām jāyatām
vīryavān. |*

In a read asyāi dadāty, in c me, in d 'syām.

*yena devy aditir garbham ādate ye[6]na prajāḥ srjatu prajā-
patī tenāham asyāi haviṣā juhomi ya[7]tḥā pumāṃsaṃ janayāsi
putram*

In a read ādhatte, in b srjati prajāpatīḥ, in d putram.

*vanve te putram pari devatābhyo [8] anu manyantām maru-
taḥ prṣnimātaraḥ garbhas tvā daśamā[9]syaḥ pra viśat kumāraṃ
jātaṃ pipṛtād upasthe z 1 z*

Read: vanve te putram pari devatābhyo anu manyantām marutaḥ prṣnimātaraḥ | garbhas tvā daśamāsyas pra viśat kumāraṃ jātaṃ pipṛtād upasthe z 8 z 2 z

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(RV. 10. 136)

[f.89a9] *keśy agniṁ keśi* [10] *viṣaṁ keśi bibharti rodasī* | *keśi viśvaṁ syar dr̥ṣe keśidaṁ jyotir ucyate* | [11] *munayo vātareśanāṣ piśaṅga vasate malāḥ vātasyānu dhrājim yantu yad de*[12]*vāso ayukṣata* | *unmaditā moneyena vācān ā śastimā vayan* | *śarīre*[13]*d asmākaṁ yūyam mantāso vi paśyata anta-rikṣeṇa patatis svan bhūtāvicākaśat.* | [14] *munir devasya-devasyā sāukṛtyāya sakhā yata* | *om̐ asāukṛtyāya sakhā* [15] *yata* | *indrasyāśvo vāyos sakhāto diviṣito munih ubhāu samudrāv ā kṣi*[16]*ti sadyaṣ pūrvas utāparam gandharvāṇām apsarasām devānām carane caran* | [17] *munīṣ ketussya saṁvidvān sakhā svādur madintamaḥ vāyur asmā upāmantha*[18]*t pinaṣti smā kunannamaḥ munir viśasya pātrena yad rudrenāt pibat saha* | [f.89b1] *saṁyukte dyāvāprthivī tiṣṭhante vicṛtye keśenāikasya devasya viṣṭabhnāṣ chacīpa*[2]*tiḥ z 3 z*

Read: *keśy agniṁ keśi viṣaṁ keśi bibharti rodasī* | *keśi viśvaṁ svar dr̥ṣe keśidaṁ jyotir ucyate z 1 z munayo vātareśanāṣ piśaṅgā vasate malā* | *vātasyānu dhrājim yantu yad devāso ayukṣata z 2 z unmaditā māneyena vātān ā tasthimā vayan* | *śarīred asmākaṁ yūyam mantāso 'bhi paśyata z 3 z antarikṣeṇa patati svar bhūtāvacākaśat* | *munir devasya-devasya sāukṛtyāya sakhā yataḥ z 4 z indrasyāśvo vāyos sakhātho deveṣito munih* | *ubhāu samudrāv ā kṣeti sadyaṣ pūrvam utāparam z 5 z gandharvāṇām apsarasām devānām carane caran* | *munīṣ ketasya saṁvidvān sakhā svādur madintamaḥ z 6 z vāyur asmā upāmanthat pinaṣti smā kunannamā* | *munir viśasya pātrena yad rudrenāpibat saha z 7 z saṁyukte dyāvāprthivī tiṣṭhante tvicṛtye* | *keśenāikasya devasya tvīṣṭabhnāc chacīpatiḥ z 8 z 3 z*

Our st. 8 has no parallel: if it is really a part of the hymn I would suggest for pāda b something like *saṁ tiṣṭhante vicṛttā ye*, and would insert *sva* at the beginning of pāda d.

39

(RV. 10. 126)

[f.89b2] *na tam aṅho na duritaṁ devāso aṣṭa martyaṁ sajo-ṣaso yam aryamā mi*[3]*ttro nayanti varuṇo atī dviṣaḥ tad dhi vayan vṛṇīmahe varuṇo mittrā aryaman.* [4] *yan no nirhaso yūyam pātha nethātha martham atī dviṣaḥ* | *tan notanū yūyas ūtaye va*[5]*runa nayiṣṭhā no nāiṣani ṣṭhaṣ parṣiṣṭhāṣ parṣiṇo atī*

dviṣaḥ śunam asmabhyas ūta[6]*ye varuṇa mitrāryaman. | śarma yacchatu supratha ādityāso atīmahe | ati* [7] *dviṣaḥ ādityāso ti sṛdho varuṇo mitro aryamā | rudraṁ marudbhir ugraṁ hu-*[8] *vemendras aditiyaṁ svastaye ti dviṣaḥ nātāra ū ṣu ṇas tiro varuṇo mitro* [9] *aryamā | ati viśvān ati duritā rājānaś carṣa- nānāy ati dviṣaḥ | yū*[10]*yam viśvaṁ pari pātha varuṇa mitrā- ryaman. yuṣmākam śarmāṇi prayā syāma* [11] *supraṇītayo ti dvi- ṣaḥ yathā ha tyadi vasavo gāuryaṁ cit. prāṣatā vimuñca*[12]*tā yajatrāḥ evo śv asman muñcatā vy añhaṣ pra tāry agne pratiranta āyuh z z* [13] *z 4 z*

Read: na tam aṇho na duritaṁ devāso aṣṭa martyam | sajo-
saso yam aryamā mitro nayanti varuṇo ati dviṣaḥ z 1 z tad dhi
vayaṁ vṛṇīmahe varuṇa mitrāryaman | yena nir aṇhaso yūyam
pātha nethātha martyam ati dviṣaḥ z 2 z †tan no tanū yūyam†
ūtaye varuṇa mitrāryaman | nayiṣṭhā no neṣani stha parṣiṣṭhāś
parṣiṇo ati dviṣaḥ z 3 z śunam asmabhyam ūtaye varuṇo mitro
aryamā | śarma yacchantu sapratha ādityāso yad īmahe ati
dviṣaḥ z 4 z ādityāso 'ti sridho varuṇo mitro aryamā | rudraṁ
marudbhir ugraṁ huvemendram ādityaṁ svastaye 'ti dviṣaḥ z
5 z netāra ū ṣu ṇas tiro varuṇo mitro aryamā | ati viśvāni duritā
rājānaś carṣaṇinām ati dviṣaḥ z 6 z yūyam viśvaṁ pari pātha
varuṇa mitrāryaman | yuṣmākam carmāṇi priyāḥ syāma supra-
nītayo 'ti dviṣaḥ z 7 z yathā ha tyad vasavo gāuryaṁ cit padi
ṣitām amuñcatā yajatrāḥ | evo śv asman muñcatā vy añhaṣ pra
tāry agne prataram na āyuh z 8 z 4 z

In st. 3a RV. has te nūnaṁ no 'yam, and I incline to think that the reading of our ms. is only a corruption of this; if we adopt the reading of RV. here, nominatives should stand in pāda b. It may however be possible that we have a form of tan in the pāda, so that we might read something like tan no tanutha yūyam ūtaye; but this does not harmonize in meter. The form of 3ed is not wholly good; RV. has parṣaṇi in d which might be read here; in fact parṣiṇo may not seem acceptable. In 8b I think we are safe in reading with RV. as indicated.

40

[f.89b13] *devasya tvā savituṣ prasavāśvinoh bāhubhyām pūṣno hastābhyām* [14] *prasūto vrahmaṇebhyo nirvāpāmi | śa me mā kṣiṣṭa sadam iṣyamāṇaḥ pitṛnām* [15] *loke anumadhān prthivyemaṁ pacāmy anu dyāur manvatām anv antarikṣaṁ anumanyatā*[16]*m aditir devaputrā pivet svarge loke stu | vrah-*

maṇoṣām adhi dadhāmy agnāu bhūmyām [17] tvā bhūmim
 adhīdhārayāmi | agniṣ pacam rakṣatv odanam imam rakṣaṣ
 piśācān [18] nudatām jātavedāh acyutam akṣitiṁ viśvadānim
 utsam iva madam akṣiya[19]mānam pitā pitāmaha uta yas ṛtī-
 yah prayataṁ bhāgam upajīvāntv atra | [f.90a1] prapīnam
 akṣatiṁ viśvadānyo somam iva punar apyāyamānam putrah
 pāutra uta yaś pra[2]pāutras teṣām astu nihato bhāga eṣaḥ
 māmejāryam nihato bhāga eṣa mānu[3]ṣam mārṣata glupto stu
 | vāivasvate ni dadhe śe|vadhīm etaṁ to smat sṛjātu mahyam
 eva [4] punaḥ pūryatām ya dadan tasyāudano yam tiṣṭhaty
 akṣatis sadā | vāivasvatena glupto [5] stu rājñā samītopajīvantu
 me svā z śatadhāram sahasradhāram utsam akṣa[6]tām yaś ca
 mānam salilasya madhye | ūrjam duhānam anapasphurantam
 upāsi[7]ya sukrātām yatra lokāḥ zz zz oṁ upāsiya sukrātām
 yatra lo[8]kāḥ z anu 5 zz ity atharvaṇi pāippalādaśākhāyām
 pañcama[9]ṣ kāṇḍaḥ z z

Read: devasya tvā savituṣ prasave aśvinor bāhubhyām pūṣṇo
 hastābhyām prasūto vrahmaṇebhyo nirvapāmi | sa me mā kṣeṣṭa
 madam iṣyamānaḥ z 1 z pitṛnām loke anu madam pṛthivyemaṁ
 pacāmy anu dyāur manyatām anv antarikṣam | anu manyatām
 aditir devaputrā pibet svarge loke 'stu z 2 z vrahmaṇoṣām adhi-
 dadhāmy agnāu bhūmyām tvā bhūmim adhīdhārayāmi | agniṣ
 pacam rakṣatv odanam imam rakṣaṣ piśācān nudatām jātavedāḥ
 z 3 z acyutam akṣitiṁ viśvadānim utsam iva madam akṣiyamā-
 nam | pitā pitāmaha uta yas ṛtīyah prayataṁ bhāgam upajī-
 vantv atra z 4 z prapīnam akṣitiṁ viśvadānim somam iva punar
 āpyāyamānam | putrah pāutra uta yaś prapāutras teṣām astu
 nihito bhāga eṣaḥ z 5 z †māmejāryam† nihito bhāga eṣa mānuṣam
 †mārṣata klpto 'stu | vāivasvate ni dadhe śevadhīm me tam
 tasmāt sṛjātu mahyam evā punaḥ z 6 z pūryatām yo dadan
 tasyāudano 'yam tiṣṭhaty akṣitis sadā | vāivasvatena klpto 'stu
 rājñā sametā upajīvantu me svāḥ z 7 z śatadhāram sahasradhā-
 ram utsam akṣitam vyacamānam salilasya madhye | ūrjam
 duhānam anapasphurantam upāsiyāḥ sukrātām yatra lokāḥ z 8
 z 5 z anu 8 z

ity atharvaṇi pāippalādaśākhāyām pañcamaṣ kāṇḍaḥ zz zz

Of the numerous variations of the formula in st. 1 that in
 KS. 1. 4. is most like ours; for the end of st. 1 cf. Ś. 4. 34. 8c
 and Ppp. 6. 22. 8c. With our st. 8 cf. Ś. 18. 4. 36. For st. 6ab
 I can make no suggestion that seems promising.

TONES IN SUMERIAN

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In his interesting article 'The Pronouns and Verbs of Sumerian,' published in the *Proceedings of the American Philosophical Society*, vol. 54 (1915), Professor Prince stated (p. 44) that I had suggested that the different persons in the Sumerian verb might have been distinguished by a difference in quantity of the vowels of the preformatives, so that, for example, 'he made' might have been *in-gar*; 'thou madest,' *in-gar*; 'I made,' *in-gar*—*i* denoting a very short *i*, *i* a short *i*, and *i* a long *i*; cf. the three Segôls in Hebrew *elôhîm* 'god,' *helqî* 'my lot,' and *timçêna* 'they [fem.] will find.'

The vowels in Aztec have four different pronunciations, and in Siamese the vowels have three quantities: very short, short, and long; cf. Misteli's new edition of Steinthal's *Charakteristik der hauptsächlichsten Typen des Sprachbaues* (Berlin, 1893), p. 113, n. 1; p. 207). Proto-Slavonic had very short, short, and long vowels, also a musical accent with different intonations (*EB*¹¹ 25. 233^b, 12; 236^b, l. 4).¹ Sweet (*Primer of Phonetics*) distinguishes very short, short, half-long (or medium), long, and very long sounds. In English we have three varieties of *i* in *military* and *police*: the second *i* in *military* is very short, the first is short, and in *police* we have a long *i*. Consequently the possibility of a differentiation of the three persons by different quantities of the vowels in the preformatives (*in*, *in*, *in*) cannot be denied; but I never advanced this theory either in my publications, or in my academic lectures, or in discussions at philological meetings, or in private conversations, or even in my wildest dreams.

Nor did Bertin (*PSBA* 5. 19) suggest such a distinction. In the paper cited by Prince he speaks only of accent = stress in Sumerian; he thought that Sumerian originally had the accent on the antepenultimate or even on the pre-antepenultimate (contrast *SFG* 55).

Accent, of course, may denote not only stress, but also pitch, intonation, modulation of the voice, manner of pronunciation.

Gabelentz, *Die Sprachwissenschaft* (Leipzig, 1891), p. 361, says: 'Alles das, was man unter dem französischen Namen *accent* begreift, gehört hierher: Höhe und Beugung des Tones, Rhythmus, Art der Lauterzeugung.' A man born in this country may have a pure American accent, but may misaccentuate certain words, saying, for example, *legislative*, *exigencies*, *intercalary*, *transferable*, *décadent*, whereas an immigrant may correctly accentuate these words, but show his foreign accent by pronouncing the *g* in *legislative* like *ch*, the *t* like *d*, and the *v* like *f*.

I fail to see how Prince with his remarkable linguistic equipment can have misunderstood both Bertin and me. When he quoted the remark I made 40 years ago (*SFG* 19, n. 6; cf. 41, l. 9) in *AJSL* 19. 205 (July 1903)² and in his *MSL* xxi (1908), he correctly interpreted the term 'accent,' which I used in 1879, to mean 'tone-accent.' I stated in *SFG* 19, n. 6, that the cuneiform characters *KIL* (*rim*, *xap*) = Assy. *garâru* 'to run' and *GUR* = Assy. *târu* 'to turn' were both read *gur* in Sumerian, but were no doubt pronounced with a different inflection of the voice,³ perhaps *gur* = *garâru* 'to run' as *gúr*, and *gur* = *târu* 'to turn' as *gùr*. I added that the tablets to be copied were sometimes dictated; so it could easily happen that a scribe did not hear which accent *gur* should have in a particular case. He might therefore write *gúr* instead of *gùr*, and it would perhaps be better to term this 'confusion of accents' instead of 'phonetic spelling.'⁴ If I had thought that there was a quantitative difference between the two syllables, I should have used *gūr* and *gúr*, not *gúr* and *gùr*. So far as I know, the acute and grave accents have never been used to distinguish long and short vowels (though the acute accent is at times found used to mark long vowels),⁵ but they have been repeatedly employed for indicating different tone-accents, e. g. by Misteli, *op. cit.* xxiv; cf. also Lepsius's *Standard Alphabet*, p. 234 and below, n 3. Sweet, *Elementarbuch des gesprochenen Englisch* (Leipzig, 1886), p. 44, used the acute accent for the rising intonation and the grave for the falling. If I speak of two monosyllables having different accents it is evident that I mean musical accents, not stress-accents.

The term 'tone' instead of 'accent' = musical accent or tone-accent was not customary in 1879, at least not in Germany. Georg Curtius in his lectures on comparative philology, which

I attended twice (in 1876 and in 1878), used the term *Betonung* for 'intonation' or 'tone-accent,' but *Betonung* means, as a rule, 'stress'; a *betonte Silbe* is an accented syllable (cf. Gabelentz, *op. cit.* 357). The term *Betonung* is used also by Misteli (*op. cit.* 162). On p. 303 of Misteli's work we find beside *Betonung* the term *Intonation*, and on p. 304 *Töne*. Even in this country the term *tone* = musical accent is comparatively rare. The definition of *tone* as a distinctive quality or pitch forming in some languages a fixed feature of the pronunciation of words, as in Chinese, Swedish, etc., was not given in the original edition (1889-91) of the *Century Dictionary*, although Whitney was the editor-in-chief, but in the two supplementary volumes issued in 1909. In Webster's *New International Dictionary* the term *tone* is defined as an intonation, or inflection, of the voice which distinguishes the meaning of a word from that which it has when pronounced with a different inflection, as in Chinese and some other languages. In Pekingese *ma*¹ means 'mother,' *ma*² 'hemp,' *ma*³ 'horse,' *ma*⁴ 'to revile.'

The title of the recent article by C. B. Bradley, analyzing the tones of Cantonese and Pekingese words (*JAOS* 35. 199), is 'Tone-accents of two Chinese Dialects,' and whenever he uses the term *tone* he puts it in quotation-marks. On p. 201 he says: "'Tone" in our sense of the word is not exactly pitch at all, but rather a patterned change or movement within the field of pitch.' He is inclined to think that there are six tones in the Cantonese dialect, which may be reduced to three, each having perhaps a short variety. Gabelentz (*op. cit.* 362) says: 'Im Chinesischen haftet, je nach der Mundart, jedem Worte ein bestimmter Ton an, der gleichmässig gezogen, steigend oder fallend, kurz abgebrochen und dann wieder hoch oder tief sein kann.' In *EB*¹¹ 1. 113 (1911) the Chinese tones are treated under *accent*. Dr. Giles, of Cambridge, says there (p. 113): 'In languages like Chinese, which have neither compound words nor inflection, accent plays a very important part.' On page 112^a he remarks: 'Swedish also has a well-marked musical accent.' Misteli (*op. cit.* 207) says that there are five tones, or accents, in Siamese.

The term *accent* was used in this sense also by F. Max Müller. He said in his *Lectures on the Science of Language* (New York, 1884), 1. 265: 'Chinese has about 450 radicals. These 450

sounds are raised to 1263 by various accents and intonations.' According to Giles, whose article (*EB*¹¹ 6. 217^a) is quoted by Prince in *JAOS* 34. 326-327, there are 420 vocables in Pekingese and 800-900 in Cantonese; he remarks that Cantonese is supposed to approximate most nearly to the primitive language, whereas Pekingese (Mandarin) perhaps has receded farthest from it. In his introductory lectures to his second series of *Lectures* Max Müller stated with reference to Annamese (cf. *EB*¹¹ 2. 62^a): 'One of the early missionaries said, When I arrived in Cochin-China, and heard the natives speak, particularly the women, I thought I heard the twittering of birds, and I gave up all hope of ever learning it. All words are monosyllabic, and people distinguish their signification only by means of different accents in pronouncing them. The same syllable, for instance *daä*, signifies twenty-three entirely different things, according to the difference of accent, so that people never speak without singing. This description, though somewhat exaggerated, is correct in the main, there being six or eight musical accents or modulations in this as in other monosyllabic tongues, by which the different meanings of one and the same monosyllabic root are kept distinct. These accents form an element of the language which we have lost, but which was most important during the primitive stages of human speech.'

It is, of course, a mistake to suppose that we have lost these modulations. *EB*¹¹ 6. 217^b, below, correctly states that the Chinese tones may be compared to the half-involuntary modulations which express emotional feelings in our words. We may compare, for example, the different intonations of the words *like that*. If an artist is trying to show one of his students how a certain line should be improved, the student may ask, after having tried to carry out his master's instructions, *Like that?* i.e. 'Should it be like that?' The master thereupon may draw the line himself, adding laconically, *Like that!* i.e. 'No, it should be this way!' After critically surveying his correction for a moment and perceiving enthusiastic appreciation on the part of his pupil, he may say, *Like that?* i.e. 'Do you like that?' The tone of the first and the third *like* are entirely different, and even the second has a different intonation.

In Germany it was customary for barbers to shave their customers at home. It was also customary to shorten the salutation

Guten Morgen! to *Morgen!* just as *Gesegnete Mahlzeit!* was shortened to *Mahlzeit!* (see R. Meringer, *Indogermanische Sprachwissenschaft*, Leipzig, 1899, p. 31; cf. also p. 17). A barber might meet one of his distinguished customers in the street and say respectfully, *Morgen!* i.e. 'Good morning!' The customer would reply, with a somewhat condescending intonation, *Morgen!* Thereupon the barber might ask, *Morgen?* i.e. 'Shall I call at your house tomorrow?' and the customer might reply, *Morgen!* i.e. 'Yes, you may come tomorrow.' The conversation would end by the barber bidding his distinguished customer again a deferential *Morgen!* i.e. 'Good morning!' the customer replying, somewhat nonchalantly, *Morgen!* In this brief conversation the word *Morgen* would have six different intonations; even the first and the last *Morgen* of both barber and customer would have different inflections of the voice.⁶

In the German edition (by Fick and Wischmann) of Max Müller's work (Leipzig, 1892-93) we find (1. 357) *Accente und Betonungen* for 'accents and intonations'; in 2. 29 *vermittelt verschiedene Betonungen in der Aussprache* is used for 'by means of different accents in pronouncing them,' and *sechs oder acht musikalische Accente oder Modulationen* for 'six or eight musical accents or modulations.' The term *musikalischer* (or *tonischer*) *Accent*⁷ is used also by Sievers in his *Phonetik*⁵ (Leipzig, 1901), § 600, 602, 661. Sievers introduced these terms in the second edition of his book (1881), § 30 (contrast p. 114 in the first edition of 1876). On p. 80 of his *Rhythmisch-melodische Studien* (Heidelberg, 1912) Sievers speaks of *Worttonhöhen* in Chinese, etc. The term *tone* is found in Jespersen's *Elementarbuch der Phonetik* (Leipzig, 1912), p. 182 (15. 8). Viëtor's *Kleine Phonetik*⁹ (Leipzig, 1913), § 131, distinguishes *Dauer, Stärke, Höhe*, i.e. quantity or length, stress or force, and intonation or pitch. For *accent* = 'stress' Jespersen employs *Druck* (14. 1) = *Nachdruck* (Sievers, *Phonetik*⁵, § 570). The term *tones* was used as early as 1857 by Edkins in his *Grammar of Colloquial Chinese* (2d ed., Shanghai, 1864). He said: 'By natural tones are meant certain inflections of the voice and variations in time and pitch used with vowels and consonants'; see the quotations in Techmer's *Phonetik*, 1. 182. Techmer gave there also some remarks on tones in certain African languages (Hottentot, Mandingo), and on p. 180 he quoted

Storm's résumé on tones in Norwegian and Swedish (cf. also p. 70 and *EB*¹¹ 24. 297^a, 298^a). The term *tones* was used also in Lepsius's *Standard Alphabet* (London, 1863), p. 232, 234, 241, 243.

Nevertheless these quotations from phoneticians and linguists show that I was perfectly justified in using the term *accents* instead of *tones*, and Prince's misunderstanding of the plain statements made by Bertin and myself in English and German may create a certain prejudice against his explanations of intricate syntactical problems in Sumerian. I do not prefer the term *accent* to *tone*; I merely want to explain why I used *accent* instead of *tone* 40 years ago. I was convinced in 1878 that there were tone-accents in Sumerian as in Chinese, Annamese, Siamese, Lithuanian, Serbian, Swedish, Norwegian, Hottentot, and Mandingo, but I never entertained the idea that in the cases where the Sumerian preformatives of the third person seem to be used for the first or second person there was a quantitative or tonal difference in the vowels. This phenomenon must be explained in a different way; in a number of such cases we have a different construction in Sumerian.

In the incantation *ASKT* 79 we find, for example, for the Assyrian *gibil ina išâtika elliti ina bit ekliti nûra tašâkan* 'O Firegod, with thy bright fire thou makest light in the house of darkness,' in Sumerian *gibil izâ-zu ela laġlaġa^s e-giggiga laġ ab-gaga*, which means literally 'O Firegod, thy fire bright and radiant the house of darkness light makes,' so that *ab-gaga* is the third person, not the second (cf. *CV* 21).⁹ We need not read *kuga* (*SGL* 126) instead of *giggiga*. The gloss *kuga* is a synonym of *giga*; cf. Arabic *rayâh* (*AJSL* 22. 203). The older form of *gik*,¹⁰ *gi* was *mi*. The change of *mi* to *gi* was not due to nasalization (*SGL* 100, n. 1). *Gi=gûi=yi=mi*; see *OLZ* 17. 454 and my note on Armenian *g* for *y* in *ZDMG* 69. 564; cf. also the modern form *Guštâsp* for the Old Persian *Vîštâspa* (Jackson, *Persia Past and Present*, p. 64; *Zoroaster*, p. 5). It might be well to add here that the Biblical *Tatnai* is not a corruption of *Vîštâna* (*JBL* 32. 114; contrast *AJSL* 24. 244; *GB*¹⁶ 931^b). For *eklitu* 'darkness' see *OLZ* 16. 492.

It is, of course, important that the Sumerian forms be correctly analyzed. For instance, we must not read in 4 R² 10. 37^b (*ZB* 65) *šu-bu ban-nip* instead of *šu gi-ban-nip* (*SGL* 90; *SG*

§ 128 e) and regard *bu* as a possessive suffix modified by vocalic harmony. Nor must the root *ip* 'to be wroth' in *ib-ba-bi* 'his wrath' or 'he against whom someone is incensed' = *al-mağdûbu* 'alâğhi in the first sûrah of the Koran be explained as a preformative of the second person (*MSL* xxvii, § 26 = *AJSL* 19. 215, § 26). The correct explanation of *ib-ba-bi* 'who has provoked wrath' was given 37 years ago in *ASKT* 188, no. 101. For *git* = *çabātu* see *CV* 25.

In some cases Prince is very conservative: in *Proc. Am. Phil. Soc.* 54. 34, l. 2 (cf. also *AJSL* 33. 44, ad l. 20) he gives, for example, the old incorrect reading *muğ* for the preposition corresponding to the Assyrian *elî* 'over,' although he has on the preceding page the correct reading *ugu* in *ugu-zu-nene* = Assyrian *elîkunu* 'upon you.' I have explained the agglutination in the plural forms of the Sumerian possessive suffixes and in the corresponding Semitic forms in *Judges* (*SBOT*) 65. 46 (cf. *CV* 12). This *ugu* is connected with *gu* 'neck, shoulder,' which is used also for 'height' (*SGL* 102), just as Heb. *kaṭēf* is used of the high table-land of Moab or of the Philistine foothills or of the hills east of the Sea of Galilee (*TOCR* 1. 303). Also *Shechem*, on the high road from north to south, means 'shoulder.' Sum. *ugu* is a formation like *ugur* 'sword' from *gur* 'to cut up' (*SGL* 43; cf. *CV* 35; contrast *SG* 155, ad § 58, 59).¹¹

The reading *ugu* should have been adopted before Brünnow (8888; cf. Meissner 6597) recorded it, since we knew that the Sumerian equivalent of Assyrian *na'butu* 'to flee,' *ugu-de*, could be written either with the sign *U* = *bêlu* 'lord' or with the sign *U* = *šam* 'herb' (cf. Brünnow 6035, 6721). That the first element of the Sumerian expression for 'to flee' should not be read *muğ*, but that the *U* = *bêlu* should be separated from the *KA* = *gu*, was pointed out in *SFG* 52. 2. The *de* in this phrase is not the verb *de* 'to speak' (originally 'to flow'; cf. our *flow* of eloquence, *fluency* of speech, and also *to dry up* = 'to cease talking'), but is a byform of *du* 'to go,' so that *ugu-de* corresponds to Assyrian *êtelû* 'to get up and get away.' In Arabic, *râfa'a* means 'to lift, raise' and 'to remove,' and *irtafa'a* 'to be raised or removed.' Arab. *ṭâla'a* signifies 'to rise, ascend' and also 'to go away' (Arab. *ṭâla'a* 'ânhum idâ ḡâba). In modern Arabic *ṭâla'a* is used also for 'to go out, to leave' (cf.

Mic. 73, l. 2; *ZA* 30. 97). In the third Sumerian family law (cf. *ZA* 30. 93) we find *ina bîti u igari êtêlâ* 'he must leave hovel or mansion,' i.e. it makes no difference whether his father be poor or rich (contrast *BA* 4. 86). The word *igaru* has here the same meaning as in l. 22 of the Flood Tablet, while *bîtu* corresponds to *qigqîšu*. In Arabic, *baît* (from *bâ* 'he entered'; cf. above, p. 254) means not only 'house,' but also 'tent' (cf. *baïtu* 'l-ša'ri). On the other hand, the Assyrian equivalent of Hebrew *ôhl* 'tent,' *âlu*, meant 'city' (*AJSL* 22. 199; cf. also *BA* 3. 579). I have shown (*JAOS* 32. 6) that Assyrian *qigqîšu* is a reduplicated form of Heb. *qaš* 'straw,' just as French *chaume* means 'stalk, stubble' and 'hut' (= *chaumine*, *chaumière*). Luther used *Hütte* 'hut' for 'tent.' The original meaning of *hut* is 'wattle, hurdle.'

In a great many cases we find in Sumerian the third person instead of the first, e.g. *mae*¹² *eri-zu ide-zu mun-gam-am* = Assyrian *anâku aradka mazarka kansaku* 'I, thy servant, before thee I bow' (4 R² 24, no. 3, l. 10). The Sumerian construction is here: 'I, thy servant, before thee bows,' not 'I bow.' The pronoun *I* may be construed with the third person, especially when it is followed by 'thy servant.' We are all familiar with *I* is instead of *I am* (cf. on the other hand *ain't*, *don't* for *is not*, *does not*). Assyrian *kansaku* stands for *kamsaku*; the stem *kamâsu* is a transposition (cf. *AJSL* 32. 64) of Heb. *samâk* 'to prop, support'; the original meaning of Assyrian *kamâsu* 'to collapse' is 'to be unpropped.' For the etymology of *ardu* 'servant' see *ZDMG* 69. 172, n. 11.

In the same way we must explain the third person instead of the first in *u-turâni-ta*, 'from the days of his youth' = Assyrian *ultu ûm gîrîku* 'from the time I was young': *u-turâni-ta* is co-ordinated to the suffix *mu* in *mulu ugu-mu zeûa*, 'what is good for me,' in the preceding line. The construction, from our point of view, is: 'May she do what is good for me—me, O Lady, who from the days of his youth is fast bound to adversity, who ate no bread, weeping was my refreshment,' etc. (cf. *CV* xxxv; *ZB* 34). In connection with the phrase 'fast bound to adversity' I have called attention to the line of Mutalammis (*BL* 92): *inna 'l-mar'a rahnu muçîbati* (cf. *JBL* 32. 141) = 'man is a pledge¹³ of adversity' (see *BA* 5. 215, n. **).

In the dialogue between Ea and his son Marduk, which we find in the fifth tablet of the *Šurpu* series,¹⁴ the Assyrian version

has (ZR 26. 30): *mârî minâ lâ tîdî* 'my son, what dost thou not know?' but the Sumerian text has: *dumu-mu ana nu-ni-zu*, 'my son, what does he not know?' We can say, 'What does my son not know?' instead of 'What dost thou not know?' (contrast SG 157, ad § 150). We often use the third person instead of the second or first. A little boy may say, 'Johnnie has tummy-ache' instead of 'I have pains in my stomach.' In the first scene of *King Lear*, Cordelia says: 'What shall Cordelia speak? Love, and be silent!' and Kent says to Lear: 'Be Kent unmannerly, when Lear is mad.' In the second act of Wagner's *Walküre* Wotan says to Brünnhilde: 'Brünnhilde stürme zum Kampf, dem Wälsung kiese sie Sieg' instead of 'Brünnhilde, stürme zum Kampf, dem Wälsung kiese du Sieg.' Later in the same act Siegmund asks Brünnhilde: 'Umfährt Siegmund Sieglinde dort?' to which Brünnhilde replies: 'Sieglinde sieht Siegmund dort nicht.'

We may substitute the third person for the first or second in relative clauses. For Hebrew *ānî Iahwê mēqaddēšô* (Lev. 21. 15; 22. 9, 16) we may say 'I am the Lord which sanctify him' (Revised Version) or 'I am the Lord who sanctifies him' (Polychrome Bible). Similarly we may say for 'Our Father, which art in heaven' (Authorized Version) 'Our Father, who is in heaven.' If the first or second person of the verb is used in connection with a relative pronoun, it is necessary in German to insert the pronoun of the first or second person: 'Unser Vater, der du bist im Himmel.'

In Syriac one may use in a relative clause after a vocative either the second person or the third (see Nöldeke, *Syr. Gr.*² § 350 B, c). In Arabic we generally find in this case the third person, e.g. *ia āiuhā 'llaḏīna āmanū* 'O ye who believe,' not *āmāntum*; but it is more usual to say *a-lāsta 'l-'ābda 'llaḏī kūnta* 'art thou not the slave who wast?' instead of *a-lāsta 'l-'ābda 'llaḏī kāna* 'art thou not the slave who was?' (see WdG 2. 324 B; 319 c; Reckendorf, § 198; Spitta, § 206 d; Fleischer, KS 1. 802; cf. GK § 155 m; also Dillmann², p. 466, l. 3).

We may say 'A new song will I sing Thee, O God, who givest victory' or 'who gives victory.' In Ps. 144. 10 we find co-ordinated to 'Thee' in v. 9: 'who saves His servant from the sword' = Hebrew *Elôhîm šîr-hadāš ašîrā-lak . . . hap-pôçê 't-'aḥdô me-hārḇ*.¹⁵ In Ps. 104 the Authorized Version has: 'Thou art clothed with honor and majesty, who coverest thyself with light

as with a garment, who stretchest out the heavens like a curtain,' but in the following verses the third person is used instead of the second: 'Who layeth the beams of His chambers in the waters, who maketh the clouds His chariot, who walketh upon the wings of the wind, who maketh His angels spirits, His ministers a flaming fire.' The Polychrome Bible here substitutes the second person (cf. *JHUC*, no. 163, p. 48^b).

There are a great many passages in the Old Testament where we may substitute the second person for third and vice versa; cf., for example, Ps. 106 and 136. For a series of co-ordinated participles, either with or without the article, cf. Ps. 136. 4; 144. 10; 145. 16; 146. 6; 147. 8; also the fragments of the Maccabean psalm scattered through the Book of Amos (4. 12, 13; 5. 8, 9; 9. 5, 6). The portions preserved consist of three triplets with 3 + 3 beats. The last line of the third triplet is lost. It has been replaced by a repetition of the second triplet. For *ā'sê* in the first line of the first triplet (4. 12) we must read the third person (*ia'sê*). We find these co-ordinated participles also in the cuneiform prototypes (*JHUC*, no. 163, p. 54^a) of the Biblical Psalms, e.g. *ASKT* 116. 6, 8, 10 (*CV* xxxv; *ZB* 33; *DB* 1. 169^a, l. 6). For the Assyrian participles the Sumerian has here the simple roots without any preformatives or affirmatives, e.g. *šem-mumu* = Assy. *mušêcât urkîti* 'she who causes herbage to sprout'; *u-tu duâbi-ene* = Assy. *bânât kalâmi* 'she who generates everything.'

The Hebrew parallels cited above help us to understand the substitution of the third person for the second in Sumerian hymns and incantations. In 4 R² 20, no. 2, l. 7, we find, for example, for the Assyrian version *šamaš ana mâti rêšika taššâ* 'O Sungod, thou hast lifted thy head toward the land' in Sumerian: *babbar kalamâ-ta sagâna-šu mi-nin-il* 'O Sungod, in the land with his head he lifts' (cf. *SFG* 58, n. 5; contrast *SG* 121, n. 2). We may regard this as a relative clause, equivalent to Hebrew *han-nôšê bē-rôšô 'el-ha-'ârç* (for the *bē-* cf. *našâ bē-rôšô* = ἀνέψωσεν κεφαλὴν αὐτοῦ in Sir. 11. 13; also *GK* § 119 q and *JBL* 32. 112, n. 19; 113, n. 23).

If we use *Your Excellency* or *Your Lordship*, or similar forms of address, we employ the third person instead of the second. We also prefer the third person to the first in formal invitations and replies. If a letter begins with 'The undersigned,'

or 'An old soldier who,' or 'A poor woman who,' the third person is used instead of the first. In English we say 'you would expect' for the German *man würde erwarten*. In Hebrew one may say 'he [or they] will expect,' although the second person may be used (*GK* § 144 b, d, f, h; *Mic.* 25, n. 17). If we find in Hebrew the third person feminine in cases like *uat-técr-lô* instead of *uai-iécr-lô*, we must supply *nafšô* 'his soul.' In German a person is now addressed *Sie* 'they'; some punctilious people use this also for *er* 'he' when referring to a person in his presence: instead of saying 'er hat mir soeben gesagt, er müsste morgen abreisen' they will say 'sie haben mir soeben gesagt, sie müssten morgen abreisen' (cf. *BL* 26, n. †). I have heard men address a young apprentice *du*, an old coachman *Ihr*, and a little boy *du* or *er* (e.g. 'will er wohl!' instead of 'willst du wohl!' sc. 'das sein lassen,' i.e. 'stop that!')

In the eighth and ninth centuries of our era princes and high dignitaries were addressed *Ihr*. In the 17th century it was customary to say *Er* for 'you.' The plural *Sie haben* has been used for *Er hat* in the sense of 'you have' since the end of the 17th century. Schiller's father, who died in 1796, addressed his son in his letters *Er*.¹⁶ In Schiller's *Die Räuber* (1781) Franz addresses his father *Ihr*, while he thous his son; Karl uses *Sie* in speaking to the Catholic father. For *Er* cf. the opening scenes of Lessing's *Minna von Barnhelm*. In the Bavarian army officers addressed enlisted men *Er* down to 1868. Originally *Er* was preceded by *der Herr*, corresponding to Hebrew *ādônî*, and this form of address is still used in certain cases: a waiter may say, 'Wünschen der Herr zu speisen!' In the German army not only privates and non-commissioned officers, but even lieutenants will not say to a captain, 'Haben Sie sonst noch Befehle, Herr Hauptmann?' but 'Haben der Herr Hauptmann sonst noch Befehle?' It is also considered more polite to say 'Gnädige Frau gestatten?' instead of 'Gestatten Sie, gnädige Frau!'

In modern Hebrew it is still good form to use the third person instead of the second. For 'come in!' for example, one says *iaḇô!* i.e. 'let him come!' A lady will say to a guest at her table: *iôšit-lî-nâ 'et-çallaḥtô uḇ-'asîma lē-fanâû haṭîḳât bašâr çalî*, lit. 'may he pass me his plate, and I will place before him

a slice of roasted meat'; or *î'óm-nâ haṭīkāt çalî 'eġl* 'may he taste a slice of roast veal?' for 'Won't you try a slice of roast veal?'¹⁷ The third person is more formal and more polite than the second. In giving an order to a servant the second person would be used, just as one uses *voi* in speaking to an Italian cabman or porter, but in addressing a gentleman one says *Lei* (lit. 'her'; cf. our 'it can't be me' and the expression 'thee is' used by the Friends instead of 'thou art')¹⁸ or *Ella* 'she' with the third person singular, e.g. *ha Ella avuto nuove di suo fratello?* = 'have you had news of your brother?' lit. 'has she [viz. *vostra signoria* 'Your Lordship'] had news of her brother?' Some writers use the feminine even in the verb, e.g. *quando è Ella arrivata?* = 'when did you arrive?' (addressed to a gentleman).

Also in Spanish the third person is used instead of the second, because 'you' = 'thou' is expressed by *usted* = *vuestra merced* 'Your Grace' (Portuguese *vossê* = *vossa merce*). 'Have you your cane?' is in Spanish *tiene V. su baston?* lit. 'has Your Grace his cane?' In the Middle Ages *vos* was used instead of *tú*.

In conclusion I wish to emphasize the following points:—

(a) Sumerian was a tonal language; apparently identical syllables which have entirely different meanings may have been distinguished by tones, as in Chinese or Siamese (cf. *SFG* 19. 6; *AJSL* 19. 205, n. 7; 24. 355; *JAOS* 34. 322, 326).¹⁹

(b) The three different persons were not distinguished by different tones of the verbal preformatives.

(c) Nor were they differentiated by the quantity of the vowels of the preformatives.

(d) The pronouns of the first and second persons may be construed with the third person of the verb.

(e) Even without a pronoun of the first or second persons, or words like *thy servant* or *my lord*, the third person of the verb may be used for the first or second persons.

(f) In cases where a vocative seems to be followed by the third person of the verb instead of the second, we may regard the statement after the vocative as a relative clause, at least from our point of view; cf. the Hebrew appositional participles in Ps. 104. 2-6 and similar passages.

NOTES

¹ For the abbreviations see vol. 34, p. 425, n. 6.—*SG*, *SGL*, *SS* = Delitzsch, *Sumerische Grammatik*, *Sumer. Glossar*, *Sumer. Sprachlehre*, Leipzig, 1914.—*ZB* = Zimmern, *Babylonische Busspsalmen*, Leipzig, 1885. Cf. *JBL* 36. 75.

² This article, apart from the two introductory paragraphs, is reprinted (with some slight modifications) in *MSL* xx-xxv.

³ I said 'mit verschiedener Stimmbiegung.' The same expression is used in Meyer's *Grosses Konversations-Lexikon*⁸, 4. 60^a (1903): 'Tonakzente, d.h. Stimmbiegungen.' This article also uses the acute and grave accents for indicating the Chinese tones, e.g. *chī* 'to know,' *chì* 'finger,' *chí* 'to be willing,' *chǐ* 'upright.' In Brockhaus's *Konversations-Lexikon*, 4. 166 (1901), the term *Töne* is employed, and the grave accent is used for one of them: *lì* 'plum,' *lí* 'pear.'

⁴ For phonetic writing in Sumerian cf. *SGL* 143, l. 13; 150, l. 2; 190, *mud* 4; 200, l. 8; 269, l. 2. *SGL* 91-92 (cf. 278) states that *gír* 'dagger' is used incorrectly for *gír* 'foot,' and vice versa. The root *duk* 'to speak' is often written *tuk* = 'to take' (*SGL* 147, 161; *SG* § 156). *SGL* 77, l. 12 calls the use of *gal* 'great' for *gal* 'to be' 'schlechte Schreibweise' (cf. also 141, l. 10; 237, l. 2; 242, l. 5; 281, last line but one; 284, *maš* 5; 285, *gap*). *SGL* 106, l. 16; 246, l. 1; 264, *šeš* 3, uses the term *Ideogrammverwechslung* (cf. *SG* § 12). In a German rebus (cf. Lagarde, *Mitteilungen*, 4. 364; *BL* 131, n. *) the idea of a cemetery might be expressed by an enclosed space (yard, cf. churchyard, graveyard) and a personification of Peace, because very few Germans know that the first syllable of *Friedhof* 'cemetery' is not the word *Friede* 'peace,' but is connected with *Einfriedigung* 'fence, enclosure.' Both *Friede* and *Einfriedigung* are, of course, derived from the same stem (cf. *AJSL* 22. 203, below; *JBL* 29. 87, l. 5).

⁵ Certain English Orientalists use the acute accent in place of the macron or the circumflex to indicate long vowels. But the grave is not used for the breve. Our use of the grave in poetry corresponds, in some respects, to the Syriac *mēhagiānā* (Nöldeke, *Syr. Gr.* § 52. 5). The acute accent indicates long vowels in Hungarian. The Masoretic punctuation of Hebrew does not distinguish between long and accented vowels; the Hebrew words for 'king,' 'book,' 'ear' should be pronounced μέλχ, σέφρ, ὄζν (*AJSL* 26. 20, n. 11). The vowels of the second syllable in קִטֹּל and הִתֵּן are accented, but not long (read ικτόλ, ιττέν). Greek names like Παῦλος appear in Hebrew as פֹּלוֹס; cf. Albrecht, *Neuhebr. Gr.* (1913) § 7 d; Nöldeke, *Syr. Gr.*² p. 34, l. 5. Also the Çêrê in the imperatives of the verbs לִ"ר

and in the construct state of nouns in -ê (like *šadê* 'field') is not a long ê, but an accented short ě. English-speaking Jews often confound long and short vowels, saying, for example, *sin* for *seen*, and *seen* for *sin*. Cf. also Nöldeke, *Syr. Gr.*² § 42, 47, 48.

⁶ Cf. also 2. 30 of the German edition of Max Müller's *Lectures*; Techmer, *Phonetik*, 1. 70; Sievers, *Phonetik*⁵, § 602; Sweet, *Elementarbuch des gesprochenen Englisch*², p. 44 (*Tonhöhe*).

⁷ This does not correspond to our 'tonic accent,' which is generally used for 'syllabic stress'; but the title of Samuel Wells Williams's dictionary (Canton, 1856) was *A Tonic Dictionary of the Chinese Language*.

⁸ The Sumerian *ġ* is a $\dot{\text{J}} = \text{ġ}$ (*SFG* 71; *ASKT* 135; *CV* 6; *BA* 1. 255). Prince (e.g. *JAOS* 34. 323; 36. 95) uses *ġ* for *ġ*, but *ġ* is the symbol for ġ , i.e. our *j*.

⁹ According to *SG* § 147 c, *tašûkan* = *ap-gaga* is wrong; but it is just as correct as the free translation of *ġe-pa* 'let him be conjured' by *lû-tamât* 'be thou conjured' (see *SGL* 73, *pat* 2; *SG* § 152 a, c; also § 170, and especially p. 157, *ad* § 150; cf. p. 4, l. 5, and the remarks on the prohibitive in § 158). Also the alleged forms of the first person given in *SG* § 151 are forms of the third person; *mu-ra-du*, Gudea Cyl. B, 2. 20, does not mean 'I have built for thee,' but 'he [viz. Gudea; cf. l. 7, 12, and 3. 2] has built for thee.'

¹⁰ For the reading *gik* instead of *gig* see *JAOS* 32. 12, l. 4; *JBL* 32. 139, n. 2; *OLZ* 17. 454.

¹¹ Similarly we have *uduk* 'weapon,' originally 'killer'; this is also the primary meaning of the name of the demon Uduk (*SGL* 45). The original connotation of *ugu* 'parent' (*SGL* 43) may be 'raiser,' i.e. 'one who raises [or brings up] a child.' The original form was, it may be supposed, *ugun*. The prototype of Aram. *attûnâ* 'oven,' Sumer. *udun*, may be derived from *tun*, *dun* 'to dig, excavate' (*SGL* 152). Assyr. *utûnu* 'oven' (*SGL* 45) is synonymous with *tinûru*, Heb. *tannûr*. *DB* 2. 73^a states that the term *tannûr* is still in use in the Lebanon for a special kind of oven in which the women bake bread. A pit is dug in the earth, and a hollow cylinder of pottery, about two feet in diameter, is let down into it. Cf. also *DB* 3. 637^a; *EB* 605 and 270. Sumer. *gir* 'even,' the prototype of Heb. *gîr* (Is. 27. 9) and *kîrâim* (Lev. 11. 35), denotes especially an asphalt-furnace or pitch-pot (cf. *KAT*² 516; *BL* 131; *JBL* 36. 93).

¹² If the *ae* in *mae* (later *gae*) was pronounced as a diphthong (cf. p. 28 of Prince's paper cited at the beginning of this article), the pronunciation may have been *mai* (our *my*), but not *mô* (= French *eu* in *meute* or *Meuse*). Sievers, *Phonetik*⁵

§ 415, says that the diphthongs in German *Hain*, *Haus* are really *ae* and *ao*, not *ai* and *au*.

¹³ Cf. *Measure for Measure*, 2. 2. 92: 'Your brother is a forfeit of the law,' and Greek ἐνοχος νόμῳ; θανάτῳ πάντες ὀφειλόμεθα; τύχῃ ἐνέχει, Sophocles, *Phil.* 1086; Lat. *sorti destinatus*. The primary meaning of *destinare* is 'to fasten, to bind' (cf. Arab. *rāhana* = *hābasa*). Assyr. *šalpātu* 'adversity' (= *šalputtu*, from *lapātu*; *HW* 384^a) does not correspond to Heb. *sālf*. We have the stem of Heb. *sālf* in Assyr. *zalıptu* 'wickedness' (*HW* 256^b). The *s* in Hebrew and Arabic (*fāsila*) is due to partial assimilation (cf. *JBL* 36. 141, n. 4).

¹⁴ Cf. *JBL* 19. 62, n. 8; *AJSL* 13. 142.

¹⁵ The words *rā'ā* after *me-hārḥ* and *dayād* before 'abḏō are glosses.

¹⁶ Cf. the articles *Duzen* and *Er* in *Brockhaus* (see above, n. 3).

¹⁷ See J. Rosenberg, *Hebr. Conversationsgrammatik*, p. 77, 104. Rosenberg writes *haṭīḥaṭ* instead of *haṭīkaṭ* (corrected on p. 180). Siegfried-Baentsch, on the other hand, wrote *Mordekai* for *Mordekai*; see *Esra, Nehemia und Ester* (Göttingen, 1901), p. 135-139, 152-175.

¹⁸ *Thee* is used for *thou* in the dialect of West Somerset; also *you* was accusative (and dative) until about the 16th century, the nominative being *ye* (cf. *EB*¹¹ 12. 326^a; *Century Dictionary*, p. 7012^a).

¹⁹ The same view was expressed by Amiaud in 1888; see Weissbach, *Die sumerische Frage* (Leipzig, 1898), p. 104, n. 8; cf. p. 172.

THREE NOTES IN HEBREW LEXICOGRAPHY

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1. PSALMS 75. 9.

כִּי כּוֹס בִּיד יְהוָה וַיִּין חֹמֶר מֵלֵא מִסֶּךְ וַיִּגַּר מִזָּה אֶךְ שִׁמְרִיהָ יִמְצֹ
שִׁתּוּ כָל רִשְׁעֵי אֶרֶץ

The Massoretic reading **מִזָּה** וַיִּגַּר which is translated into English by 'he poureth out of the same' has been generally considered unsatisfactory, and thus some modern critics, following the Greek and Syriac versions, have suggested the emendation **מִזָּה לָזָה**, that is, 'he poureth out from one (cup) into another.' But I need hardly say that this emendation does not render the expression less ambiguous and cumbersome.

I venture, therefore, to offer the following new explanation of the term **מִזָּה**. We need only slightly to alter the vowel points of the word, reading **מִזָּה** instead of the present **מִזָּה**, to see that the Massoretic text is on the whole correct. **מִזָּה** is not the demonstrative **זֶה** with the particle **מִ**, but it is rather the substantive **מִן** with the pronominal suffix **הָ**. The phrase **מִזָּה וַיִּגַּר** may thus be rendered 'and he poureth out her **מִן**.' As to the meaning of the term **מִן**, we may, in the first place, conjecture from its context that it is synonymous with **יִין**, **חֹמֶר**, **מִסֶּךְ**, all of which occur in the same verse, meaning 'wine.' Furthermore, in Arabic, too, this term, invariably written *muzz*, *muzzat*, *mizza*, means 'wine.' It is mentioned in the *Tahzīb al-Alfāzī* and in the *Lisān al-‘Arab* among the words meaning 'wine.' The native Arab lexicographers illustrate this meaning of the term **מִן** by many citations from ancient poets, for which I may refer to the *Tahzīb* just cited.

2. SONG OF SONGS 7. 6.

רֹאשֶׁךְ עָלֶיךָ כְּכֶרְמֶל וּדְלַת רֹאשֶׁךְ כְּאַרְגָּמָן מֶלֶךְ אֲסוּר בְּרֹהֲטִים

How puzzling this verse has proved to all commentators is quite familiar to Biblical students. Both Hebrew and gentile

scholars, ancient and modern, have failed to interpret it, especially the second part. The net result of all their efforts is well summed up by Ehrlich, who writes: 'Hier ist das Schlussglied für mich unübersetzbar.'

Now here, too, the difficulty arises from the misreading of the word מֶלֶךְ, which is treated as if it were the triliteral noun for 'king.' As a matter of fact, the ך in this case is not a radical letter, but a pronominal suffix added to the substantive מל parallel to the ך in the preceding ראשׁך. The proper reading is not מֶלֶךְ, but מֶלֶךְ-ך or מֶלֶךְ-ך. Thus, with merely a slight change in the pointing of this one word and without alteration of the Massoretic consonants, this hitherto most obscure verse in the Bible becomes at once clear and intelligible.

In describing his beloved, the lover uses the following three figures of speech: (1) 'thy head upon thee is like Carmel'; (2) 'and the hair of thine head like purple'; (3) 'thy מל is אסור כרהטים'. All three figures parallel each other, the third conveying the same thought as the preceding. By a gradual process of elimination we may be able to get the meaning of the third part of the verse.

The theme of the passage is the hair of the beloved, for מֶלֶךְ corresponds to the preceding word רֵלָה, which means 'tresses.' The lover sings the praises of her hair, which is אסור כרהטים. The verb אסר is most commonly used in the sense of binding, but not infrequently it is also used in the sense of tying, as in ויאסר את מרכבתו. ויאסרו בעגלה. ויאסר אזור במתניהם. אסרי לגפן עירה—in the last place in the sense of girdling. The verb may therefore be used here in the sense of doing up the hair with something, either for ornament or convenience. The meaning of the word כרהטים becomes clear. It refers to the ribbons and fillets which a woman employs to do up her hair. Now the term כרהטים in the sense of 'tresses,' which is usually attributed to it in this passage, likewise does not occur elsewhere in the Bible, as modern commentators have observed (cf. Budde), while מל is *hapax legomenon*.

But, as a matter of fact, both מל in the sense of tresses and כרהט in the new interpretation I give it, rest on a firm basis. Although none of the senses of the Hebrew root מלל, found

elsewhere in the Bible, suggest the sense in which I suppose מל is used in the Song of Songs, namely that of 'tresses,' it might conceivably be that this meaning was derived from the conception of motion implied in the root מלל, from which we have the expression מלל ברגליו. and perhaps also the word מלל in the sense of rubbing and stirring, as found in the Mishna. Compare, for example, the word מלתלים which Nöldeke declares to have been derived from the Arabic *taltala*, which is used in the sense of motion. It is also possible that the word מלל in the Mishna in the sense of fringes, as in the passage Kelim 28. 7, חוץ מן המלל, according to the interpretation of R. Hai Gaon, is closely related to the word.

The Arabic, to be sure, possesses no noun *mall* meaning 'hair,' but there is the inverted term *limmat* 'locks,' which is used by the ancient poet al-'Ijâj quoted by al-Aṣmayî in his *Kitâb huluk al-insân* (ed. A. Haffer). Now the derivation of the word *limmat* remains obscure; for, among the various shades of meaning of the Arabic root, all of which imply arrival and approach, there is none from which it could logically have been evolved in this sense. The explanation given in the *Lisân al-'Arab* seems rather far-fetched. One is therefore tempted to question the indigeneity of the word in the Arabic language. It is perhaps permitted to suppose that it was borrowed from some other Semitic language, not improbably from the Hebrew itself, and that, in passing from one language to another, the radicals became transposed, as is so often the case.

As regards the word רהטים, the argument rests on a still firmer basis. There seems to be no room for doubt. The word רהט is found also in Arabic, where it is used in a sense very much akin to that in which I suppose it is used in this verse. See the *Lisân al-'Arab*, s.v. According to Lane, s.v., the *rahaṭ* is a garment for children made of skin or wool cut into thongs or strips.

We may conclude that in the ancient Semitic language the word רהט originally has the general sense of a strip of leather or cloth, of a width varying according to its use in each locality. Among the Hebrews the רהט may have been a narrow strip like a fillet, used both as an ornament and a hair-band.

3. NAHUM 2. 14.

הנני אליך נאם יהוה צבאות והבערתי בעשן רכבה וכפיריך
תאכל חרב והכרתי מארץ טרפך ולא ישמע עוד
קול מלאככה

The great majority of modern commentators are generally agreed upon accepting the Massoretic text of this verse, subject, however, to a slight emendation. They would regard the ה at the end of מלאככה as a dittography from the beginning of the next verse.

The commentators have, nevertheless, been slightly troubled as to the proper disposal of מלאככה. There is no room at all for a messenger, for the entire last part of this chapter deals with lions and their prey. One of the modern commentators has suggested that we substitute מהלכך for מלאככה, while others declare that this whole hemistich must be placed elsewhere. But the Massoretic text is correct. The מלאך used here is not the word מלאך in the usual sense of 'messenger,' but is derived rather from a root לאך whose Arabic equivalent is *lāka* 'grind.' The roots 'alaka and 'alaka are used in exactly the same sense. The three roots are used synonymously in the sense of grinding some hard object between the teeth, as a horse grinds his teeth upon the bit. It is the sound made by the molar teeth when grinding something hard. There is no doubt that the word מלאככה used here is employed in a similar sense to complete the figure of the lion and his prey. Translate: 'the sound of thy grinding.'

BRIEF NOTES

Note on Kathāsaritsāgara 9. 7

At the opening of the second book of the Kathāsaritsāgara, in which the story of Udayana is begun, there is a passage that requires emendation, although Speyer has not dealt with it in his critical notes (*Studies about the Kathāsaritsāgara*, p. 154 ff.). On introducing Śatānika, the grandfather of Udayana, the author says (taraṅga 9, v. 6 and 7)¹ :—

*tasyām rājā śatānikah pāṇḍavānvayasambhavaḥ
janamejayaputro 'bhūt pautro rājñah parīkṣitah
abhimanyuprapautrasya yasyādipuruso 'rjunah.*

This is translated by Tawney (1. 51), according to the text given above: 'In it [the city of Kauśāmbī] dwelt a king named Śatānika, sprung from the Pāṇḍava family; he was the son of Janamejaya, and the grandson of king Parīkṣit, who was the great-grandson of Abhimanyu. The first progenitor of his race was Arjuna.'

The apparent omission of two generations between Parīkṣit and Abhimanyu is surprising, and is also in contradiction with the accounts of the Mahābhārata and the Purāṇas, which make Parīkṣit the son of Abhimanyu (see Pargiter, *The Purāṇa Text of the Dynasties of the Kali Age*, p. 4). Read therefore in the third line *-prapautras tu*, 'and he (Śatānika) was the great-grandson of Abhimanyu.' The corruption of the nominative into the genitive is easily explained by the influence of the following *yasya*.

CHARLES J. OGDEN

New York City

Name of the so-called deity Za-mal-mal

In the Chicago Syllabary recently published (Luckenbill, *AJSL* 23. 169 ff.), line 220 is read: *ba-a* | sign to be explained | *pi-sa-an-nu* | *ša* ^d*za-mal-mal* *šu-ma*.

¹ Ed. Brockhaus, 1. 97; ed. Durgāprasād and Parab, p. 28 (Bombay, 1889). D's second edition (1903) is not accessible to me.

The name of the patron god of Kish who is identified with In-urta (Nin-IB), called *mâr rêštum ša E-kur* in the Hammurabi Code, and later 'the Marduk of battle,' has been read *Za-mà-mà*, and, as above, *Za-mal-mal*. The last word in the line of the Syllabary, namely, *šu-ma*, however, is to be understood as meaning that the sign in the name which has been read *mà* and *mal*, is here to be read *ba*. For the same expression cf. line 288 of the Yale Syllabary (Clay, *Miscellaneous Inscriptions*, 53: 288), which reads: *ur-ta* | sign to be explained | *u-ra-šu* | *ša* ^d*Nin-IB* *šu-ma*, which means that the sign *IB* or *urašu* in ^d*Nin-IB* is to be read *ur-ta*.¹ The complete name, however, is to be read *Nin-urta* or (*N*)*in-urta*. In late times, according to a well-established law, the *r* passes into *š*, and the name is reproduced in Aramaic characters אַנְיִשְׁתָּ, which represents *In-ušta* < *In-urta* < *In-marta* < *Nin-marta* or perhaps *Nin-Mar-Tu*.

With the reading *Za-bà-bà* before us, the name of the god of Ekron, Baal Zebûb, immediately suggests itself for comparison. The usual explanation of this name, i.e. 'lord of flies,' a Zeus ἀπόμυιος, such as was worshiped at Elis in Greece, has never seemed appropriate for the oracle god which was consulted by Ahazia, king of Israel. Perhaps later we will find more evidence of a deity in Western Asia named Zabûb or Zabâb, whose name was reproduced in Babylonia by the scribes as *Za-bà-bà*.

A. T. CLAY

Yale University

Babylonian niš 'oath' in West-Semitic

One point in the fragmentary and difficult ending of the Hadad inscription from Zenjirli is cleared up by reading נִשָּׁה in lines 28 and 29 as equal to the Babylonian *niš* 'oath.' The repeated נִשָּׁה אִמֵּר will then mean 'he shall speak (take) his oath,' the final ה being the pronominal suffix (not a radical, which would be א, or the emphatic ending, which does not occur in this inscription). In line 28-29 read: 'Your brother shall take his oath: Has he destroyed, or stolen . . .' (ה not Hafel, which is unknown in נִנְב, but interrogative particle). Then

¹ See also line 51 of the Yale Syllabary. That *urta* is the reading only of *IB*, was not stated in *Miscellaneous Inscriptions*.

further on: 'He shall take his oath: If [הן אִם, n.b. the proper particles of swearing] I have set these words in a presumptuous mouth [read וְ rather than וּ, the facsimile speaking for the former] . . .' (Can the following verbs be interpreted as imperatives: 'Then stand fixed, my eye, be terrified[?], my ear [reading 'אָרְנִי']?') Evidently the subject of the text is brought before some kind of judicial ordeal. If נִשְׁ is to be interpreted as 'oath,' it is a Babylonian importation, and may reflect light upon the meaning of the Babylonian term in the contracts, where its meaning is variously explained.

I would suggest that possibly 'יְהוָה נִשְׁ' of Ex. 17. 15 is to be translated, not 'Yahwe is my banner,' but 'Yahwe is my oath,' i.e. 'I swear by Yahwe.' The following obscure verse evidently gives Yahwe's oath of destruction against the Amalekites. In this case the word has been taken over from the Babylonian with a Samek instead of a Sin (possibly through South-Arabic influence?).

JAMES A. MONTGOMERY

University of Pennsylvania

*On the Reading of the Date-formula of the Fourth Year of
Gimil-Sin*

The date-formula, commemorating the fourth year of Gimil-Sin, king of Ur, has universally been transcribed by: *mu^dGimil^d Sin lugal Uri^{ki} -ma-ge bād mar-tu mu-ri-iq Ti-id-ni-im mu-dū* (or, *mu-rū*). (See Myhrman, *BE* 3, part 1, p. 42; Kugler, *Sternkunde und Sterndienst*, vol. 2, part 1, p. 172; Huber, *Die Personennamen in den Keilschrifturkunden aus der Zeit der Könige von Ur und Nisin*, p. 33, etc.) Striking is here the Semitic name of the wall, which has been translated by Kugler: 'Schutzwehr gegen Tidnim.' It seems somewhat forced to translate 'Bulwark *against* Tidnum,' but it could be translated by 'bulwark of Tidnum.' This would imply that Tidnum is either a personal name, or, what seems more probable in case we acquiesce in the above transcription, a special district of Uruk. But Tidnum as a geographical name, so far as I can ascertain, is nowhere mentioned. In view of the fact that we meet in this date-formula with the Semitic word *murik* I would propose to read instead of *Ti-id-ni-im*, *á-lí-im* and connect the

preceding *ti* with *murik*, i.e. *mu-ri-ik-ti á-lí-im*. The phonetic reading of the Sumerian phonetic values for a Semitic word is not uncommon at that age, particularly in proper names. It could then be translated either by: 'City-extension,' if *muriktu* is taken as the participle of *araku* ²¹, with fem. termination (for *murriktu*), or 'bulwark of the city.' Note also that the omission of *ti* in *RTC* 428, R. 7, in this case is not a mistake of the scribe, but fully justified.

H. F. LUTZ

University of Pennsylvania

'Emperor'-worship in Babylonia—a Reply

Without trespassing too much upon the Journal's valuable space, it seems desirable to point out, with reference to what Professor Barton has written (*JAOS* 37. 162-163), that while he appreciates my aim in my article on 'emperor'-worship, he accuses me of overlooking evidence which would overthrow my whole thesis. Only three points in reply are necessary: first, *JAOS* 36. 363, note 12, will disprove the accusation of overlooking important evidence; secondly, a comparison of the article itself with what Professor Barton writes in his last two paragraphs will show conclusively that he has made no point which has not already been made in my article, where the possibilities of other interpretations have been carefully noted; finally, it can hardly be considered biased to attempt to discover whether material can be interpreted in more ways than one. In my opinion, evidence proving 'emperor'-worship in Babylonia may be forthcoming, but it has not yet appeared.

SAMUEL A. B. MERCER

Western Theological Seminary, Chicago

The Assyrian Veterinary Physician

The existence of the veterinary *surgeon* among the Babylonians is known from Hammurabi's codex. The activity of the veterinary *physician* is revealed in Rm 362 of the Kuyounjik texts.

The history of the veterinary medicine and surgery is almost a history of horse treatment. Greek, Latin, Anglo-Saxon, and

Middle Low German veterinary texts have been published, and in every case disorders of horses' feet occupy the first place. Colica of the horse is the principal internal ailment recorded by the ancients, and this has been treated since Assyrian times.

A large percentage of the badly mixed contents of *CT* 14 shows a characteristic arrangement of three columns. A single name of a plant, often accompanied by species determination through color, origin, or the like, appears in each line of the first column; the second column tells in what sickness it is useful; the third column advises the manner of application.

Rm 362, on plate 41 of *CT* 14, contains parts of 13 lines of 5 sections. The first section consists of 5 lines. Of the first column, only the species determination of the last two plants is preserved; in each case it reads *eqli* 'arvensis.' The first line of the second column is slightly mutilated and can be restored to read *šam qi-iz libbi ša murnizqi* 'plant for abdominal cutting ache of the horse.' This means that the plant named in the first column is a remedy useful in treating colica of the horse. The next 4 lines repeat: 'remedy for the same.' The third, fourth, and fifth lines of the third column have lost because of mutilation the sign *HI*. Each reads: *taḥašal ina kuruni titirri ana libbi* 'contunde in vino, ungue ad abdomen.'

Cataplasmata have been used throughout the centuries for treatment of colica of the horse. Rm 362 presents the oldest evidence hitherto found.

FELIX VON OEFELE

New York City

NOTES OF THE SOCIETY

The annual meeting of the Middle West Branch of the Society will be held in Cincinnati on February 22d, 1918. The Hebrew Union College has extended an invitation, and the local committee of arrangements, Messrs. Morgenstern, Grossman, Kohler, and Philipson, is already making provision for the entertainment of the members. The program has not been completed, but papers have been announced by Messrs. Breasted, Bittenwieser, Byrne, Fullerton, Kohler, Lybyer, Morgenstern, Olmstead, Tolman, Waterman, and Wolfenson, and others are under consideration. Members desiring to present communications are requested to inform the secretary of the Branch, A. T. Olmstead, Urbana, Illinois.

The annual meeting of the Society will take place at New Haven on Tuesday, Wednesday, and Thursday of Easter Week, April 2d, 3d, and 4th, 1918.

NOTES OF OTHER SOCIETIES

A joint meeting of the Archaeological Institute, the American Philological Association, the Society of Biblical Literature and Exegesis, the American Historical Association, and the American Anthropological Association was held in Philadelphia at the University of Pennsylvania, December 26th to 29th, 1917. The Society of Biblical Literature held its sessions of the first day at Dropsie College. Several of the joint sessions were devoted to symposiums and topics of interest to Oriental students. On the 27th the following papers were presented, each one being followed by the remarks of an appointed opener of the discussion: "The Cosmopolitanism of the Religion of Tarsus and the Origin of Mithra," by A. L. Frothingham; "Oriental Impe-

rialism," by A. T. Olmstead (opener, Morris Jastrow, Jr.); "Greek Imperialism," by W. S. Ferguson (opener, W. N. Bates); "Roman Imperialism," by G. W. Botsford (opener, S. B. Platner); "The Decay of Nationalism under the Roman Empire," by Clifford Moore (opener, F. F. Abbott). On the 29th the Historical Association held a conference on Far Eastern History, with the following papers: "The Mid-Victorian Attitude of Foreigners in China," by F. W. Williams; "American Scholarship in Chinese History," by K. S. Latourette; "Twenty Years of Party Politics in Japan, 1897-1917," by W. W. McLaren; "The History of Naturalization Legislation in the United States, with Special Reference to Chinese and Japanese Immigration," by S. L. Gulick. There was also a subscription dinner conference for members of the Historical Association interested in Far Eastern History. At a joint session of the Archaeological Institute and the Society of Biblical Literature several papers on the archaeology of the Near East were presented. The meetings were thus particularly characterized by attention to Oriental questions.

The Archaeological Institute elected as president James C. Egbert, and as additional vice-presidents A. T. Clay, H. R. Fairclough, H. N. Fowler, Frank Springer; the other officers were re-elected.

The Society of Biblical Literature elected the following officers: president, J. A. Montgomery; vice-president, E. J. Goodspeed; secretary, H. J. Cadbury; corresponding secretary, M. L. Margolis; treasurer, George Dahl.

The governing board of the American School of Oriental Research in Jerusalem met in connection with the above meetings. It was felt that this was a propitious time for taking steps toward raising an endowment for the School and for making other provisions for its usefulness as soon as work can begin again in Jerusalem. A gift of \$50,000 was announced from Mrs. James B. Nies, of Brooklyn, for the construction of the first building on the School's property. Consul Glazebrook, of Jerusalem, reported on the condition of the property of the School and gave an interesting account of conditions in Jerusalem, which he left last May. Professors Torrey, Clay, and Ropes were re-elected, respectively, chairman, secretary, and treasurer of the Managing Committee.

We quote the following from the Literary Supplement of the *London Times*:—

The two oldest European organizations for the advancement of Oriental learning—the *Société Asiatique*, which began its activities in 1822, and the Royal Asiatic Society, which came into existence a year later—have concluded an agreement in the last few days for close and practical co-operation. It is felt that the most effective preparation for a wider federation of Allied Orientalists is for the two older societies to constitute a nucleus which may be a *point d'appui* for similar organizations. One of the objects of the scheme is that of replacing by a better, more speedy, and less cumbrous organization the old Orientalist Congresses, which met triennially in various European capitals. The last of these congresses was held in Athens in 1912, and the one in prospect before the war for 1915 was to assemble in London.

The Hyderabad Archaeological Society announces the institution of the 'Pinhey Memorial Gold Medal,' to be awarded triennially for the best work on Deccan archaeology or history. Theses for the first competition, which is open to scholars in any part of the world, will be received up to the end of October, 1918.

Those interested in the science of phonetics will be glad to learn of the formation in New York, during the past summer, of the Phonetic Society, whose object is, as implied in its name, 'the advancement of the organized knowledge of the sounds of human speech in general, and of the sounds and combinations of sounds which characterize the different languages of the world.' While necessarily local and limited in its activities at the start, this society looks forward to a wider membership and larger field of usefulness. Its first president is Dr. Charles P. G. Scott; its secretary is Robert Morris Pierce (143 West 47th Street, New York City), who will supply additional information on request.

PERSONALIA

The Rev. JAMES HOPE MOULTON, Professor of Hellenistic Greek and Indo-European Philology in the University of Manchester, died, at the age of 53, after the wrecking of his vessel in the Mediterranean by an enemy submarine on April 4th, 1917, from several days' exposure on the sea. He was distinguished in the field of Hellenistic grammar, particularly for his *Grammar of New Testament Greek*, and for his Iranian studies, among which may be named his Hibbert Lectures on *Zoroastrianism*. At his death he was returning from a journey to India, where he lectured before the Parsi community, which has since published the lectures. Probably the last of his learned communications was his report on the decipherment of the Hittite bilingual texts made by Hrozný and his associates and generally inaccessible to the English-speaking world because of the war. This appeared in the *Expository Times* for December, 1916. An appreciation of Professor Moulton is given by his colleague Professor George Milligan in the *Expository Times* for June, 1917.

The Hon. JOHN W. FOSTER, LL.D., a former minister to China and one time Secretary of State, died in Washington on November 15th. He was born in 1836. He distinguished himself in diplomatic negotiations with and in behalf of the Chinese government, and was the author of *American Diplomacy in the Orient* (1902). He was lecturer in international law in Columbian University, Washington, D. C.

The Marquis CHARLES JEAN MELCHIOR DE VOGÜÉ, born October 18th, 1829, died in Paris on November 10th, 1917. Appreciations of this distinguished archaeologist are given by S. Reinach in *Revue Archéologique*, 1916, p. 429-447, and by Père Lagrange in *Revue Biblique*, 1917, p. 5. A bibliography of his writings is contained in the *Florilegium . . . à Melchior de Vogüé*, ed. G. Maspero, Paris, 1909.

HENRY BARCLAY SWETE, D.D., Regius Professor of Divinity in Cambridge University, died last May, in his 83d year. His

great contribution to Oriental scholarship lies in his edition of the Greek Old Testament and the accompanying volume of Introduction.

JOHN GWYN, D.D., Regius Professor of Divinity in the University of Dublin, is dead, in his 91st year (see the *Guardian* for April 12th). He was the discoverer and editor of several valuable Syriac manuscripts of the New Testament.

Dr. TRUMAN MICHELSON, of the Bureau of American Ethnology, has been appointed Professor of Ethnology at George Washington University. He will retain his position as ethnologist in the Bureau. He spent a profitable season of field work in the summer and autumn among the Sauk, Fox, and Potawatomi Indians.

LIST OF MEMBERS

The number placed after the address indicates the year of election.
† designates members deceased during the past year.

HONORARY MEMBERS

- Dr. RAMKRISHNA GOPAL BHANDARKAR, C.I.E., Deccan College, Poona, India. 1887.
- Prof. ÉDOUARD CHAVANNES, 1 Rue des Écoles, Fontenay aux Roses, Seine, France. 1917.
- Prof. CHARLES CLERMONT-GANNEAU, 1 Avenue de l'Alma, Paris. 1909.
- Prof. T. W. REYS DAVIDS, Cotterstock, Chipstead, Surrey, England. 1907.
- Prof. BERTHOLD DELBRÜCK, University of Jena, Germany. 1878.
- Prof. FRIEDRICH DELITZSCH, University of Berlin, Germany. 1893.
- Prof. ADOLPH ERMAN, Berlin-Steglitz-Dahlem, Germany, Peter Lennéstr. 72. 1903.
- Prof. RICHARD GARBE, University of Tübingen, Germany. (Biesinger Str. 14.) 1902.
- Prof. KARL F. GELDNER, University of Marburg, Germany. 1905.
- Prof. IGNAZ GOLDZIEHER, vii Holló-Utcza 4, Budapest, Hungary. 1906.
- GEORGE A. GRIERSON, C.I.E., D.Litt., I.C.S. (retired), Rathfarnham, Camberley, Surrey, England. Corporate Member, 1899; Hon., 1905.
- Prof. IGNAZIO GUIDI, University of Rome, Italy. (Via Botteghe Oscure 24.) 1893.
- Prof. HERMANN JACOBI, University of Bonn, 59 Niebuhrstrasse, Bonn, Germany. 1909.
- †Prof. HENDRIK KERN, 45 Willem Barentz-Straat, Utrecht, Netherlands. 1893.
- Prof. LEONARD W. KING, British Museum, London, England. 1917.
- Prof. SYLVAIN LÉVI, Collège de France, Paris. (9 Rue Guy-de-la-Brosse, Paris, Ve.) 1917.
- Prof. EDUARD MEYER, University of Berlin, Germany. (Gross-Lichterfelde-West, Mommsenstr. 7.) 1908.
- Prof. THEODOR NÜLDEKE, University of Strassburg, Germany. (Kaiser-Friedrichstr. 32.) 1878.
- Prof. HERMANN OLDENBERG, University of Göttingen, Germany. (27/29 Nikolausberger Weg.) 1910.
- Prof. EDUARD SACHAU, University of Berlin, Germany. (Wormserstr. 12, W.) 1887.
- Prof. ARCHIBALD H. SAYCE, University of Oxford, England. 1893.
- ÉMILE SENART, Membre de l'Institut de France, 18 Rue François I^{er}, Paris, France. 1908.
- Prof. C. SNOUCK HURGRONJE, University of Leiden, Netherlands. (Witte Singel 84a.) 1914.

- Prof. JULIUS WELLHAUSEN, University of Göttingen, Germany. (Weberstrasse 18a.) 1902.
 Prof. ERNST WINDISCH, University of Leipzig, Germany. (Universitätsstrasse 15.) 1890. [Total: 24]

CORPORATE MEMBERS

Names marked with * are those of life members.

- Rev. Dr. JUSTIN EDWARDS ABBOTT, 120 Hobart Ave., Summit, N. J. 1900.
 Mrs. JUSTIN E. ABBOTT, 120 Hobart Ave., Summit, N. J. 1912.
 Dr. CYRUS ADLER, 2041 North Broad St., Philadelphia, Pa. 1884.
 Dr. WILLIAM FOXWELL ALBRIGHT, Johns Hopkins University, Baltimore, Md. 1915.
 Dr. THOMAS GEORGE ALLEN, 5547 Drexel Ave., Chicago, Ill. 1917.
 Dr. OSWALD T. ALLIS, 26 Alexander Hall, Princeton Theological Seminary, Princeton, N. J. 1916.
 Prof. MASAHARU ANESAKI, Imperial University, Tokyo, Japan. 1914.
 SHIGERI ARAKI, 102 West 123d St., New York. 1915.
 Prof. J. C. ARCHER, 571 Orange St., New Haven, Conn. 1916.
 Prof. WILLIAM R. ARNOLD (Andover Theol. Seminary), 25 Kirkland St., Cambridge, Mass. 1893.
 Prof. KANICHI ASAKAWA, Yale University Library, New Haven, Conn., 1904.
 Q. M. Sgt. CHARLES CHANEY BAKER, 1125 Arbor Drive, San Diego, Cal. 1916.
 Hon. SIMEON E. BALDWIN, LL.D., 44 Wall St., New Haven, Conn. 1898.
 Dr. HUBERT BANNING, 17 East 128th St., New York. 1915.
 LEMONT BARBOUR, 440 West End Ave., New York, N. Y. 1917.
 Prof. LEROY CARR BARRET, Trinity College, Hartford, Conn. 1903.
 Prof. GEORGE A. BARTON, Bryn Mawr College, Bryn Mawr, Pa. 1888.
 Mrs. DANIEL M. BATES, 51 Brattle St., Cambridge, Mass. 1912.
 Prof. L. W. BATTEN (General Theol. Seminary), 418 West 20th St., New York. 1894.
 Prof. HARLAN P. BEACH (Yale Univ.), 346 Willow St., New Haven, Conn. 1898.
 Miss ETHEL BEERS, 3414 South Paulina St., Chicago, Ill. 1915.
 *SHRIPAD K. BELVALKAR, Deccan College, Poona, via Bombay, India. 1914.
 Miss EFFIE BENDANN, 420 West 121st St., New York, N. Y. 1915.
 Prof. HAROLD H. BENDER, Princeton University, Princeton, N. J. 1906.
 E. BEN YEHUDA, 473 Central Park West, New York, N. Y. 1916.
 Prof. C. THEODORE BENZE, D.D. (Mt. Airy Theol. Seminary), 7304 Boyer St., Mt. Airy, Pa. 1916.
 PIERRE A. BERNARD, 662 West End Ave., New York, N. Y. 1914.
 Prof. GEORGE R. BERRY, Colgate University, Hamilton, N. Y. 1907.
 Prof. JULIUS A. BEWER, Union Theological Seminary, Broadway and 120th St., New York, N. Y. 1907.
 Dr. WILLIAM STURGIS BIGELOW, 60 Beacon St., Boston, Mass. 1894.
 CARL W. BISHOP, University of Pennsylvania Museum, Philadelphia, Pa. 1917.

- Dr. FRANK RINGGOLD BLAKE (Johns Hopkins Univ.), 7 Carroll Road, Windsor Hills, Baltimore, Md. 1900.
- Dr. FREDERICK J. BLISS, Syrian Protestant College, Beirut, Syria. 1898.
- Prof. CARL AUGUST BLOMGREN (Augustana College and Theol. Seminary), 825 35th St., Rock Island, Ill. 1900.
- Prof. LEONARD BLOOMFIELD, 804 W. Oregon St., Urbana, Ill. 1917.
- Prof. MAURICE BLOOMFIELD, Johns Hopkins University, Baltimore, Md. 1881.
- PAUL F. BLOOMHARDT, Lutherville, Md. 1916.
- Dr. ALFRED BOISSIER, Le Rivage près Chambéry, Switzerland. 1897.
- Dr. GEORGE M. BOLLING, 93 N. Ohio Ave., Columbus, Ohio. 1896.
- GUSTAV VON BRAUCHITSCH, 87 Middle Divinity Hall, University of Chicago, Chicago, Ill. 1917.
- Prof. JAMES HENRY BREASTED, University of Chicago, Chicago, Ill. 1891.
- Rev. CHARLES D. BROKENSHIRE, Lock Box 56, Alma, Mich. 1917.
- Rev. Dr. GEORGE WILLIAM BROWN, Jubbulpore, C.P., India. 1909.
- Dr. WILLIAM NORMAN BROWN, 227 South 41st St., Philadelphia, Pa. 1916.
- Prof. CARL DARLING BUCK, University of Chicago, Chicago, Ill. 1892.
- LUDLOW S. BULL, 5344 University Ave., Chicago, Ill. 1917.
- ALEXANDER H. BULLOCK, State Mutual Building, Worcester, Mass. 1910.
- CHARLES DANA BURRAGE, 85 Ames Building, Boston, Mass. 1909.
- Dr. ROMAIN BUTIN, Catholic University of America, Washington, D. C. 1915.
- Prof. HOWARD CROSBY BUTLER, Princeton University, Princeton, N. J. 1908.
- Prof. MOSES BUTTENWIESER (Hebrew Union College), 257 Loraine Ave., Cincinnati, Ohio. 1917.
- Dr. EUGENE H. BYRNE, 240 Lake Lawn Place, Madison, Wis. 1917.
- Prof. HENRY J. CADBURY, Haverford College, Haverford, Pa. 1914.
- Rev. JOHN CAMPBELL, Kingsbridge, New York, N. Y. 1896.
- Prof. ALBERT J. CARNOY, University of Pennsylvania, Philadelphia, Pa. 1916.
- J. DUDLEY CARROLL, 1032 Forest Ave., Memphis, Tenn. 1915.
- Pres. FRANKLIN CARTER, LL.D., Williamstown, Mass. 1873.
- Dr. PAUL CARUS, Care of Open Court, La Salle, Ill. 1897.
- Dr. I. M. CASANOWICZ, U. S. National Museum, Washington, D. C. 1893.
- Rev. JOHN S. CHANDLER, Sunnyside, Rayapettah, Madras, Southern India. 1899.
- Miss EVA CHANNING, Hemenway Chambers, Boston, Mass. 1883.
- Dr. F. D. CHESTER, The Bristol, Boston, Mass. 1891.
- Dr. EDWARD CHIERA (Univ. of Pennsylvania), 5340 Baltimore Ave., Philadelphia, Pa. 1915.
- HWANG CHUNG-HUEI, Hotel Nottingham, Boston, Mass. 1915.
- ARTHUR H. CLARK, Caxton Building, Cleveland, Ohio. 1917.
- Prof. WALTER E. CLARK, 24 North Hall, University of Chicago, Chicago, Ill. 1906.
- Prof. ALBERT T. CLAY (Yale Univ.), 401 Humphrey St., New Haven, Conn. 1907.

- *ALEXANDER SMITH COCHRAN, 820 5th Ave., New York, N. Y. 1908.
 Rabbi SAMUEL S. COHEN, 4100 Washington Boulevard, Chicago, Ill. 1917.
 *GEORGE WETMORE COLLES, 62 Fort Greene Place, Brooklyn, N. Y. 1882.
 Prof. HERMANN COLLITZ (Johns Hopkins University), 1027 Calvert St.,
 Baltimore, Md. 1887.
 Prof. C. EVERETT CONANT, Univ. of Chattanooga, Chattanooga, Tenn.
 1905.
 Dr. ANANDA K. COOMARASWAMY, Museum of Fine Arts, Boston, Mass.
 1917.
 EDWIN SANFORD CRANDON, 36 Bowdoin St., Cambridge, Mass. 1917.
 Rev. WILLIAM MERRIAM CRANE, Richmond, Mass. 1902.
 FRANCIS A. CUNNINGHAM, 508 W. Maple Ave., Merchantville, N. J. 1910.
 Prof. JOHN D. DAVIS, Princeton Theological Seminary, Princeton, N. J.
 1888.
 Hon. ALEXANDER DEL MAR, 5 Nassau St., New York, N. Y. 1917.
 Prof. IRWIN H. DE LONG, Theological Seminary of the Reformed Church,
 Lancaster, Pa. 1916.
 Prof. ALFRED L. P. DENNIS, University of Wisconsin, Madison, Wis. 1900.
 JAMES T. DENNIS, Woodbrook, Md. 1900.
 GOTTHARD DEUTSCH, 3600 Wilson Ave., Cincinnati, Ohio. 1917.
 Mrs. FRANCIS W. DICKINS, 2015 Columbia Road, Washington, D. C. 1911.
 Dr. VICCAJI DINSHAW, Mahabubnagar, Haidarabad, India. 1915.
 Rev. D. STUART DODGE, 99 John St., New York, N. Y. 1867.
 LOUIS A. DOLE, Urbana, Ohio. 1916.
 LEON DOMINIAN, American Geographical Society, 156th St. and Broadway,
 New York, N. Y. 1916.
 Rev. A. T. DORF, 1635 N. Washtenaw Ave., Chicago, Ill. 1916.
 Rev. WALTER DRUM, S.J., Woodstock College, Woodstock, Md. 1915.
 Rev. WM. HASKELL DU BOSE, University of the South, Sewanee, Tenn.
 1912.
 Dr. GEORGE S. DUNCAN, 2900 7th St., N. E., Washington, D. C. 1917.
 Prof. FRANKLIN EDGERTON, University of Pennsylvania, Philadelphia, Pa.
 1910.
 WILLIAM F. EDGERTON, 3600 Albemarle St., Washington, D. C. 1917.
 Mrs. ARTHUR C. EDWARDS, 309 West 91st St., New York, N. Y. 1915.
 GRANVILLE D. EDWARDS, 811 College Ave., Columbia, Mo. 1917.
 Prof. FREDERICK G. C. EISELEN, Garrett Biblical Institute, Evanston, Ill.
 1901.
 ALBERT W. ELLIS, 40 Central St., Boston, Mass. 1917.
 WILLIAM T. ELLIS, Swarthmore, Pa. 1912.
 Dr. AARON EMBER, Johns Hopkins University, Baltimore, Md. 1902.
 Prof. HENRY LANE ENO, Princeton Univ., Princeton, N. J. 1916.
 Prof. C. P. FAGNANI (Union Theol. Seminary), 606 W. 122d St., New York,
 N. Y. 1901.
 Prof. EDWIN WHITFIELD FAY (Univ. of Texas), 200 West 24th St., Austin,
 Texas. 1888.
 Dr. JOHN F. FENLON, Catholic Univ. of America, Washington, D. C. 1915.
 Dr. JOHN C. FERGUSON, 91 Arlington St., Newton, Mass. 1900.

- Dr. HENRY C. FINKEL, District National Bank Building, Washington, D. C. 1912.
- CLARENCE S. FISHER, University of Pennsylvania, Philadelphia, Pa. 1914.
- Rev. Dr. FONCK, Instituto Biblico Pontifico, Via del Archelto, Roma, Italia. 1913.
- Rev. Dr. HUGHELL E. W. FOSBROKE, General Theological Seminary, Chelsea Square, New York, N. Y. 1917.
- Prof. JAS. EVERETT FRAME (Union Theol. Seminary), Broadway and 120th St., New York, N. Y. 1892.
- Prof. JOHN FRYER, 2620 Durant Ave., Berkeley, Cal. 1917.
- Prof. LESLIE ELMER FULLER, Garrett Biblical Institute, Evanston, Ill. 1916.
- Prof. KEMPER FULLETON, Oberlin Theological Seminary, Oberlin, Ohio. 1916.
- Dr. WM. HENRY FURNESS, 3d, 1906 Sansom St., Philadelphia, Pa. 1913.
- Miss MAUDE H. GAECKLER, Ormsby Hall, Appleton, Wis. 1915.
- Dr. CARL GAENSSLE, 3117 Cedar St., Milwaukee, Wis. 1917.
- ALEXANDER B. GALT, 2219 California St., Washington, D. C. 1917.
- ROBERT GARRETT, Continental Building, Baltimore, Md. 1903.
- Rev. FRANK GAVIN, St. Francis House, Cambridge, Mass. 1917.
- Dr. HENRY SNYDER GEHMAN, So. Philadelphia High School, Broad and Jackson Sts., Philadelphia, Pa. 1916.
- EUGENE A. GELLOT, 290 Broadway, New York, N. Y. 1911.
- Rev. F. GEORGELIN, S.M., S.T.L., Marist College, Brookland, D. C. 1916.
- Miss ALICE GETTY, 75 ave. des Champs Elysées, Paris, France. 1915.
- Prof. BASIL LANNEAU GILDERSLEEVE (Johns Hopkins University), 1002 N. Calvert St., Baltimore, Md. 1858.
- Rev. Dr. A. H. GODBEY, Bridgeton, Mo. 1917.
- Prof. ALEXANDER R. GORDON, Presbyterian College, Montreal, Canada. 1912.
- Prof. RICHARD J. H. GOTTHEIL, Columbia University, New York, N. Y. 1886.
- KINGDON GOULD, 165 Broadway, New York, N. Y. 1914.
- Prof. ELIHU GRANT, Haverford College, Haverford, Pa. 1907.
- Dr. LOUIS H. GRAY, 25 Brimmer St., Boston, Mass. 1897.
- Mrs. LOUIS H. GRAY, 25 Brimmer St., Boston, Mass. 1907.
- Miss BELLE DA COSTA GREENE, 33 East 36th St., New York, N. Y. 1915.
- Miss ETTALENE M. GRICE, Care of Babylonian Collection, Yale University, New Haven, Conn. 1915.
- Miss LUCIA C. GRAEME GRIEVE, 50 Heck Ave., Ocean Grove, N. J. 1894.
- Prof. LOUIS GROSSMANN (Hebrew Union College), 2212 Park Ave., Cincinnati, Ohio. 1890.
- *Dr. GEORGE C. O. HAAS, 518 W. 140th St., New York, N. Y. 1903.
- Miss LUISE HAESSLER, 100 Morningside Drive, New York, N. Y. 1909.
- Mrs. IDA M. HANCHETT, Care of Omaha Public Library, Omaha, Nebr. 1912.
- Prof. PAUL HAUPT (Johns Hopkins Univ.), 215 Longwood Road, Roland Park, Baltimore, Md. 1883.

- EDWARD A. HENRY, Box 217, University of Chicago, Chicago, Ill. 1917.
 PHILIP S. HENRY, 1402 Massachusetts Ave., Washington, D. C. 1914.
 Prof. HERMANN V. HILPRECHT, Leopoldstr. 8, München, Germany. 1887.
 Prof. WILLIAM J. HINKE (Auburn Theol. Seminary), 156 North St., Auburn, N. Y. 1907.
 Prof. EMIL G. HIRSCH, 3612 Grand Boulevard, Chicago, Ill. 1917.
 Prof. FRIEDRICH HIRTH (Columbia Univ.), 401 West 118th St., New York, N. Y. 1903.
 PHILIP K. HITTI (Columbia University), 2929 Broadway, New York, N. Y. 1915.
 *Dr. A. F. RUDOLF HOERNLE, 8 Northmoor Road, Oxford, England. 1893.
 *Prof. E. WASHBURN HOPKINS (Yale Univ.), 299 Lawrence St., New Haven, Conn. 1881.
 Dr. STANLEY K. HORNBECK, University of Wisconsin, Madison, Wis. 1917.
 Prof. JACOB HOSCHANDER, Dropsie College, Broad and York Sts., Philadelphia, Pa. 1914.
 HENRY R. HOWLAND, Natural Science Building, Buffalo, N. Y. 1907.
 Dr. EDWARD H. HUME, Changsha, Hunan, China. 1909.
 Prof. ROBERT ERNEST HUME (Union Theol. Seminary), 606 W. 122d St., New York, N. Y. 1914.
 *Dr. ARCHEB M. HUNTINGTON, 15 West 81st St., New York, N. Y. 1912.
 SOLOMON T. HURWITZ, 217 East 69th St., New York, N. Y. 1912.
 Prof. ISAAC HUSIK, 408 S. 9th St., Philadelphia, Pa. 1916.
 Prof. MARY INDA HUSSEY, Mt. Holyoke College, South Hadley, Mass. 1913.
 *JAMES HAZEN HYDE, 18 rue Adolphe Yvon, Paris, France. 1909.
 Prof. HENRY HYVERNAT (Catholic Univ. of America), 3405 12th St., N. E. (Brookland), Washington, D. C. 1889.
 Prof. A. V. WILLIAMS JACKSON, Columbia University, New York, N. Y. 1885.
 Mrs. A. V. WILLIAMS JACKSON, Care of Columbia University, New York, N. Y. 1912.
 Prof. MORRIS JASTROW, JR. (Univ. of Pennsylvania), 248 South 23d St., Philadelphia, Pa. 1886.
 Rev. HENRY F. JENKS, Canton Corner, Mass. 1874.
 Prof. JAMES RICHARD JEWETT, Harvard University, Cambridge, Mass. 1887.
 FRANK EDWARD JOHNSON, 3038 N St., N. W., Washington, D. C. 1916.
 Rev. Dr. C. E. KEISER, Lyon Station, Pa. 1913.
 Prof. ARTHUR BERRIEDALE KEITH, University of Edinburgh, Edinburgh, Scotland. 1908.
 Prof. MAXIMILIAN L. KELLNER, Episcopal Theological School, Cambridge, Mass. 1886.
 Dr. FREDERICK T. KELLY, 2019 Monroe St., Madison, Wis. 1917.
 Pres. JAMES A. KELSO, Western Theological Seminary, Pittsburgh, Pa. 1915.
 Prof. ELIZA H. KENDRICK, Wellesley College, Wellesley, Mass. 1896.

- Prof. CHARLES FOSTER KENT (Yale Univ.), 415 Humphrey St., New Haven, Conn. 1890.
- Prof. ROLAND G. KENT, University of Pennsylvania, Philadelphia, Pa. 1910.
- LEEDS C. KERR, Easton, Md. 1916.
- Prof. GEORGE L. KITTEDGE (Harvard Univ.), 9 Hilliard St., Cambridge, Mass. 1899.
- Dr. K. KOHLER (Hebrew Union College), 3016 Stanton Ave., Cincinnati, Ohio. 1917.
- GEORGE S. S. KUKHI, 30 Divinity School, Cambridge, Mass. 1917.
- WALTER S. KUPFER, 171 Madison Ave., New York, N. Y. 1913.
- Rev. Dr. M. G. KYLE, 1132 Arrott St., Frankford, Philadelphia, Pa. 1909.
- Prof. GOTTHARD LANDSTROM, Box 312, Hebron, N. Dak. 1917.
- *Prof. CHARLES ROCKWELL LANMAN (Harvard Univ.), 9 Farrar St., Cambridge, Mass. 1876.
- Prof. KENNETH S. LATOURETTE, Denison University, Granville, Ohio. 1917.
- Dr. BERTHOLD LAUFER, Field Museum of Natural History, Chicago, Ill. 1900.
- Rabbi MORRIS S. LAZARON, 1712 Linden Ave., Baltimore, Md. 1917.
- Rev. Dr. FREDERICK LENT, 195 Livingston St., New Haven, Conn. 1915.
- T. Y. LEO, Chinese Consulate, 18 Broadway, New York, N. Y. 1916.
- Dr. GERSON B. LEVI, 5000 Grand Boulevard, Chicago, Ill. 1917.
- Dr. FELIX A. LEVY, 561 Melrose St., Chicago, Ill. 1917.
- Rev. H. LINFIELD, Hebrew Union College, Cincinnati, Ohio. 1912.
- Prof. ENNO LITTMAN, Hainholzweg 44, Göttingen, Germany. 1912.
- Dr. STEPHEN B. LUCE, University of Pa. Museum, Philadelphia, Pa. 1916.
- Prof. DANIEL D. LUCKENBILL, University of Chicago, Chicago, Ill. 1912.
- Dr. HENRY F. LUTZ, 4314 Sansom St., Philadelphia, Pa. 1916.
- Prof. ALBERT HOWE LYBYER (Univ. of Illinois), 1009 W. California St., Urbana, Ill. 1917.
- *BENJAMIN SMITH LYMAN, 708 Locust St., Philadelphia, Pa. 1871.
- Prof. DAVID GORDON LYON, Harvard University Semitic Museum, Cambridge, Mass. 1882.
- ALBERT MORTON LYTHERG, Metropolitan Museum of Art, New York, N. Y. 1899.
- FREDERICK MCCORMICK (Asiatic Institute), 27 West 67th St., New York, N. Y. 1917.
- Prof. J. F. MCCURDY, 255 Fort Washington Ave., New York, N. Y. 1915.
- Prof. DUNCAN B. MACDONALD, Hartford Theological Seminary, Hartford, Conn. 1893.
- Prof. HERBERT W. MAGOUN, 70 Kirkland St., Cambridge, Mass. 1887.
- WALTER A. MAIER, 70 Tiptiff St., Dorchester, Mass. 1917.
- Rabbi LOUIS L. MANN, 757 Orange St., New Haven, Conn. 1917.
- Prof. MAX L. MARGOLIS (Dropsie College), 6501 Wayne Ave., Philadelphia, Pa. 1890.
- Prof. ALLAN MARQUAND, Princeton University, Princeton, N. J. 1888.

- JOHN MARTIN, North Adams, Mass. 1917.
 Rev. Dr. JOHN A. MAYNARD, 175 9th Ave., New York, N. Y. 1917.
 Prof. THEOPHILE J. MEEK (Millikin Univ.), 285 N. Fairview Ave., Decatur, Ill. 1917.
 Prof. SAMUEL A. B. MERCER (Western Theol. Seminary), 2738 Washington Boulevard, Chicago, Ill. 1912.
 Rev. FREDERIC C. MEREDITH, 32 Kita-kuruwa Cho, Maebashi, Jochu, Japan. 1914.
 Mrs. EUGENE MEYER, Seven Springs Farm, Mt. Kisco, N. Y. 1916.
 MARTIN A. MEYER, 3108 Jackson St., San Francisco, Cal. 1906.
 Dr. TRUMAN MICHELSON, Bureau of American Ethnology, Washington, D. C. 1899.
 Mrs. HELEN LOVELL MILLION, Hardin College, Mexico, Mo. 1892.
 †Prof. LAWRENCE H. MILLS, 218 Iffley Road, Oxford, England. 1881.
 Prof. J. A. MONTGOMERY (Univ. of Pennsylvania), 6806 Greene St., Germantown, Philadelphia, Pa. 1903.
 BENJAMIN BURGESS MOORE, 109 East 38th St., New York, N. Y. 1914.
 Prof. GEORGE F. MOORE (Harvard Univ.), 3 Divinity Ave., Cambridge, Mass. 1887.
 *Mrs. MARY H. MOORE, 3 Divinity Ave., Cambridge, Mass. 1902.
 Dr. RILEY D. MOORE, Div. of Physical Anthropology, U. S. National Museum, Washington, D. C. 1916.
 Prof. JULIAN MORGENSTERN (Hebrew Union College), 863 Hutchins Ave., Cincinnati, Ohio. 1915.
 Prof. EDWARD S. MORSE, Salem, Mass. 1894.
 Rev. HANS K. MOUSSA, Jefferson, Wis. 1906.
 Prof. W. MAX MUELLER (Univ. of Pennsylvania), 4325 Sansom St., Philadelphia, Pa. 1905.
 Mrs. ALBERT H. MUNSELL, 65 Middlesex Road, Chestnut Hill, Mass. 1908.
 Dr. WILLIAM MUSS-ARNOLT, Public Library, Boston, Mass. 1887.
 Rev. Dr. WILLIAM M. NESBIT, 477 Main St., Orange, N. J. 1916.
 EDWARD THEODORE NEWELL, Box 321, Madison Square P. O., New York, N. Y. 1914.
 Rev. Dr. JAMES B. NIES, Hotel St. George, 51 Clark St., Brooklyn, N. Y. 1906.
 *Mrs. JAMES B. NIES, Hotel St. George, 51 Clark St., Brooklyn, N. Y. 1916.
 Ven. Archdeacon WILLIAM E. NIES, Union Bank, Geneva, Switzerland. 1908.
 Dr. WILLIAM FREDERICK NOTZ, 1727 Lamont St., Washington, D. C. 1915.
 Rt. Rev. Mgr. DENNIS J. O'CONNELL, 800 Cathedral Place, Richmond, Va. 1903.
 Dr. FELIX, Freiherr von OEFELE, 326 E. 58th St., New York, N. Y. 1913.
 Prof. HANNS OERTEL (Yale Univ.), 2 Phelps Hall, New Haven, Conn. 1890.
 Dr. CHARLES J. OGDEN, 628 West 114th St., New York, N. Y. 1906.
 Miss ELLEN S. OGDEN, Hopkins Hall, Burlington, Vt. 1898.
 Prof. SAMUEL G. OLIPHANT, Grove City College, Grove City, Pa. 1906.

- Prof. ALBERT TEN EyCK OLMSTEAD (Univ. of Illinois), 901 S. Busey Ave., Urbana, Ill. 1909.
- Prof. PAUL OLTRAMARE (Univ. of Geneva), Ave. de Bosquets, Servette, Genève, Switzerland. 1904.
- *ROBERT M. OLYPHANT, 160 Madison Ave., New York, N. Y. 1861.
- Prof. LEWIS B. PATON, Hartford Theological Seminary, Hartford, Conn. 1894.
- Dr. CHARLES PEABODY, 197 Brattle St., Cambridge, Mass. 1892.
- Prof. GEORGE A. PECKHAM, Hiram College, Hiram, Ohio. 1912.
- Prof. ISMAR J. PERITZ, Syracuse University, Syracuse, N. Y. 1894.
- Prof. EDWARD DELAVAN PERRY (Columbia Univ.), 542 West 114th St., New York, N. Y. 1879.
- Rev. Dr. JOHN P. PETERS, 225 West 99th St., New York, N. Y. 1882.
- Prof. WALTER PETERSEN, Bethany College, Lindsborg, Kan. 1909.
- Hon. WILLIAM PHILLIPS, Woodley, Woodley Lane, Washington, D. C. 1917.
- T. RAMAKRISHNA PILLAI, Thottakkadu House, Madras, India. 1913.
- PAUL POPENOE, 511 Eleventh St., N. W., Washington, D. C. 1914.
- Prof. WILLIAM POPPER, University of California, Berkeley, Cal. 1897.
- Prof. IRA M. PRICE, University of Chicago, Chicago, Ill. 1887.
- Dr. JULIUS J. PRICE, 495 Palmerston Boulevard, Toronto, Ont., Canada. 1917.
- Prof. JOHN DYNELEY PRINCE (Columbia Univ.), Sterlington, Rockland Co., N. Y. 1888.
- Rev. FRANCIS J. PURTELL, S.T.L., Overbrook Seminary, Philadelphia, Pa. 1916.
- Rev. Dr. CHARLES LYNN PYATT, 801 Jackson St., Gary, Ill. 1917.
- Dr. GEORGE PAYN QUACKENBOS, Colonial Heights, Tuckahoe, N. Y. 1904.
- E. N. RABINOWITZ, 125 Aisquith St., Baltimore, Md. 1916.
- Dr. CAROLINE L. RANSOM, Metropolitan Museum of Art, 5th Ave. and 82d St., New York, N. Y. 1912.
- G. A. REICHLING, 466 Nostrand Ave., Brooklyn, N. Y. 1912.
- Dr. JOSEPH REIDER, Dropsie College, Broad and York Sts., Philadelphia, Pa. 1913.
- Prof. GEORGE ANDREW REISNER, Museum of Fine Arts, Boston, Mass. 1891.
- Rt. Rev. PHILIP M. RHINELANDER, Church House, 12th and Walnut Sts., Philadelphia, Pa. 1908.
- ERNEST C. RICHARDSON, Library of Princeton University, Princeton, N. J. 1900.
- Prof. GEORGE H. RICHARDSON, Peru, Ind. 1917.
- J. NELSON ROBERTSON, 294 Avenue Road, Toronto, Canada. 1913.
- Rev. CHARLES WELLINGTON ROBINSON, Haverford, Pa. 1916.
- Prof. GEORGE LIVINGSTON ROBINSON (McCormick Theol. Seminary), 2312 N. Halsted St., Chicago, Ill. 1892.
- Prof. JAMES HARDY ROPES (Harvard Univ.), 13 Follen St., Cambridge, Mass. 1893.

- Dr. WILLIAM ROSENAU, Johns Hopkins University, Baltimore, Md. 1897.
Dr. JOSEPH G. ROSENGARTEN, 1704 Walnut St., Philadelphia, Pa. 1917.
Miss ADELAIDE RUDOLPH, 417 West 120th St., New York, N. Y. 1894.
ELBERT RUSSELL, Woolman House, Swarthmore, Pa. 1916.
P. D. SAKLATVALA, 354 4th Ave., New York, N. Y. 1915.
†Mrs. EDWARD E. SALISBURY, 237 Church St., New Haven, Conn. 1906.
Rev. Dr. FRANK K. SANDERS, 25 Madison Ave., New York, N. Y. 1897.
Mrs. A. H. SAUNDERS, 552 Riverside Drive, New York, N. Y. 1915.
Rev. Dr. HENRY SCHAEFFER, 19 Southampton St., Chestnut Hill, Philadelphia, Pa. 1916.
Dr. ISRAEL SCHAPIRO, Library of Congress, Washington, D. C. 1914.
Dr. JOHANN F. SCHELFEMA, Box 998, Yale Station, New Haven, Conn. 1906.
Prof. NATHANIEL SCHMIDT, Cornell University, Ithaca, N. Y. 1894.
WILFRED H. SCHOFF, Commercial Museum, Philadelphia, Pa. 1912.
Prof. H. SCHUMACHER, Catholic University of America, Washington, D. C. 1916.
Dr. GILBERT CAMPBELL SCOGGIN, University of Missouri, Columbia, Mo. 1906.
Dr. CHARLES P. G. SCOTT, 49 Arthur St., Yonkers, N. Y. 1895.
*Mrs. SAMUEL BRYAN SCOTT (*née* Morris), 124 Highland Ave., Chestnut Hill, Philadelphia, Pa. 1903.
Dr. MOSES SEIDEL, 125 Aisquith St., Baltimore, Md. 1917.
Rev. Dr. WILLIAM G. SEIPLE, 125 Tsuchidoi-machi, Sendai, Japan. 1902.
O. R. SELLERS, 126 S. Divinity Hall, University of Chicago, Chicago, Ill. 1917.
Dr. HENRY B. SHARMAN, Truro, Mass. 1917.
Prof. CHARLES N. SHEPARD (General Theol. Seminary), 9 Chelsea Square, New York, N. Y. 1907.
CHARLES C. SHERMAN, 614 Riverside Drive, New York, N. Y. 1904.
*JOHN R. SLATTERY, 14bis rue Montaigne, Paris, France. 1903.
Major C. C. SMITH, Fourth Cavalry, Ft. Leavenworth, Kan. 1907.
Prof. HENRY PRESERVED SMITH (Union Theol. Seminary), Broadway and 120th St., New York, N. Y. 1877.
Prof. JOHN M. P. SMITH, University of Chicago, Chicago, Ill. 1906.
Rev. JOSEPH E. SNYDER, Ellicott City, Md. 1916.
ELY BANNISTER SOANE, Care of H. S. King & Co., 9 Pall Mall, London, England. 1911.
Prof. EDWARD H. SPIEKER, Johns Hopkins University, Baltimore, Md. 1884.
Prof. MARTIN SPRENGLING, University of Chicago, Chicago, Ill. 1912.
Rev. Dr. JAMES D. STEELE, 15 Grove Terrace, Passaic, N. J. 1892.
REUBEN STEINBACH, 114 S. Chester St., Baltimore, Md. 1916.
Rev. ANSON PHELPS STOKES, D.D., Woodbridge Hall, Yale Station, New Haven, Conn. 1900.
Hon. MAYER SULZBERGER, 1303 Girard Ave., Philadelphia, Pa. 1888.
Prof. GEORGE SVERDRUP, JR., Augsburg Seminary, Minneapolis, Minn. 1907.
Rev. HENRY SWIFT, Plymouth, Conn. 1914.

- WALTER T. SWINGLE, Bureau of Plant Industry, Washington, D. C. 1916.
 Rabbi SIDNEY TEDESHE, 461 Elmwood Ave., Providence, R. I. 1916.
 Miss MARGARET THOMAS, 20 Gloucester St., Boston, Mass. 1915.
 EBEN FRANCIS THOMPSON, 311 Main St., Worcester, Mass. 1906.
 Prof. HENRY A. TODD (Columbia Univ.), 824 West End Ave., New York, N. Y. 1885.
 Prof. HERBERT CUSHING TOLMAN, Vanderbilt University, Nashville, Tenn. 1917.
 *Prof. CHARLES C. TORREY, Yale University, New Haven, Conn. 1891.
 Prof. CRAWFORD H. TOY (Harvard Univ.), 7 Lowell St., Cambridge, Mass. 1871.
 Rev. SYDNEY N. USSHER, St. Bartholomew's Church, 44th St. & Madison Ave., N. Y. 1909.
 Rev. Dr. FREDERICK AUGUSTUS VANDERBURGH (Columbia Univ.), 55 Washington Sq., New York, N. Y. 1908.
 ADDISON VAN NAME (Yale Univ.), 121 High St., New Haven, Conn. 1863.
 Dr. ARTHUR A. VASCHALDE, Catholic Univ. of America, Washington, D. C. 1915.
 Miss CORNELIA WARREN, Cedar Hill, Waltham, Mass. 1894.
 Prof. WILLIAM F. WARREN (Boston Univ.), 131 Davis Ave., Brookline, Mass. 1877.
 Rev. SAMUEL W. WASS, 2987 Perry Ave., New York, N. Y. 1917.
 Prof. LEROY WATERMAN, Univ. of Michigan, Ann Arbor, Mich. 1912.
 Prof. J. E. WERREN, 1667 Cambridge St., Cambridge, Mass. 1894.
 Prof. JENS IVERSON WESTENGARD, 30 Concord Ave., Cambridge, Mass. 1903.
 ARTHUR J. WESTERMAYR, 100 Lenox Road, Brooklyn, N. Y. 1912.
 Pres. BENJAMIN IDE WHEELER, University of California, Berkeley, Cal. 1885.
 JOHN G. WHITE, Williamson Building, Cleveland, Ohio. 1912.
 *Miss MARGARET DWIGHT WHITNEY, 227 Church St., New Haven, Conn. 1908.
 HERBERT L. WILLETT, 6119 Woodlawn Ave., Chicago, Ill. 1917.
 Hon. E. T. WILLIAMS, Department of State, Washington, D. C. 1901.
 Prof. FREDERICK WELLS WILLIAMS (Yale Univ.), 155 Whitney Ave., New Haven, Conn. 1895.
 Prof. TALCOTT WILLIAMS, Columbia University, New York, N. Y. 1884.
 Rev. Dr. WILLIAM COPLEY WINSLOW, 525 Beacon St., Boston, Mass. 1885.
 Rev. Dr. STEPHEN S. WISE, 23 West 90th St., New York, N. Y. 1894.
 Prof. JOHN E. WISHART, Xenia, Ohio. 1911.
 HENRY B. WITTON, 290 Hess St., South, Hamilton, Ontario. 1885.
 Dr. LOUIS B. WOLFENSON, 1113 W. Dayton St., Madison, Wis. 1904.
 Dr. HENRY A. WOLFSON, 25 Divinity Hall, Cambridge, Mass. 1917.
 Prof. IRVING F. WOOD, Smith College, Northampton, Mass. 1905.
 Prof. WILLIAM H. WOOD, 1606 Minnehaha St., St. Paul, Minn. 1917.
 Prof. JAMES H. WOODS (Harvard Univ.), 179 Brattle St., Cambridge, Mass. 1900.

- Miss MARGUERITE WOODWARD, U. S. National Museum, Washington, D. C. 1917.
- Prof. WILLIAM H. WORRELL (Hartford Seminary Foundation), 133 Whitney St., Hartford, Conn. 1910.
- Prof. JESSE ERWIN WRENCH (Univ. of Missouri), 1104 Hudson Ave., Columbia, Mo. 1917.
- Rev. Dr. ROYDEN K. YERKES (Philadelphia Divinity School), 3437 Woodland Ave., Philadelphia, Pa. 1916.
- Dr. S. C. YLVISAKER, Luther College, Decorah, Ia. 1913.
- Rev. Dr. ABRAHAM YOHANNAN, Columbia University, New York, N. Y. 1894.
- Rev. ROBERT ZIMMERMAN, S. J., St. Xavier's College, Cruickshank Road, Bombay, India. 1911. [Total: 348]
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SOCIETIES, INSTITUTIONS, AND JOURNALS

TO WHICH THE PUBLICATIONS OF THE AMERICAN ORIENTAL SOCIETY ARE
SENT BY WAY OF GIFT, EXCHANGE, OR PURCHASE

AMERICA

- BOSTON, MASS.: American Academy of Arts and Sciences.
- BROOKLYN, N. Y.: Theosophical Society.
- CHICAGO, ILL.: Field Museum of Natural History.
Hibbard Egyptian Library.
- NEW YORK: Carnegie Foundation for the Advancement of Teaching.
- PHILADELPHIA, PA.: American Philosophical Society.
Free Museum of Science and Art, Univ. of Penn.
- WASHINGTON, D. C.: Archaeological Institute of America.
- WORCESTER, MASS.: American Antiquarian Society.

EUROPE

- AUSTRIA, VIENNA: Kaiserliche Akademie der Wissenschaften.
K. u. K. Direction der K. u. K. Hofbibliothek.
(Josephsplatz 1.)
Anthropologische Gesellschaft.
Geographische Gesellschaft.
- PRAGUE: Königlich Böhmisches Gesellschaft der Wissenschaften.
- DENMARK, ICELAND, REYKJAVIK: University Library.
- FRANCE, PARIS: Société Asiatique. (Rue de Seine, Palais de l'Institut.)
Bibliothèque Nationale.
Musée Guimet. (Avenue du Trocadéro.)
Académie des Inscriptions et Belles-Lettres.
École des Langues Orientales Vivantes. (Rue de Lille, 2.)

- FRANCE, PARIS: Ecole Française d'extrême Orient. (28, rue Bonaparte.)
Ministère de l'Instruction Publique.
- GERMANY, BERLIN: Königlich Preussische Akademie der Wissenschaften.
Königliche Bibliothek.
Seminar für Orientalische Sprachen. (Am Zeughause
1.)
- DARMSTADT: Grossherzogliche Hofbibliothek.
- GÖTTINGEN: Königlische Gesellschaft der Wissenschaften.
- HALLE: Bibliothek der Deutschen Morgenländischen Gesellschaft. (Friedrichstrasse 50.)
Naturwissenschaftlicher Verein für Sachsen und Thüringen.
- KIEL: Universitäts-Bibliothek.
- LEIPZIG: Königlich Sächsische Gesellschaft der Wissenschaften.
- MUNICH: Königlich Bayerische Akademie der Wissenschaften.
Königliche Hof- und Staatsbibliothek.
- TÜBINGEN: Library of the University.
- GREAT BRITAIN, LONDON: Royal Asiatic Society of Great Britain and Ireland. (22 Albemarle St., W.)
Library of the India Office. (Whitehall, S. W.)
Society of Biblical Archaeology. (37 Great Russell St., Bloomsbury, W. C.)
Philological Society. (Care of Dr. F. J. Furnivall, 3 St. George's Square, Primrose Hill, N. W.)
E. J. W. Gibb Memorial. (46 Great Russell St.)
Palestine Exploration Fund. (2 Hinde St., Manchester Square.)
- ITALY, BOLOGNA: Reale Accademia delle Scienze dell' Istituto di Bologna.
- FLORENCE: Società Asiatica Italiana.
- ROME: Reale Accademia dei Lincei.
Istituto Biblico Pontificio.
- NETHERLANDS, AMSTERDAM: Koninklijke Akademie van Wetenschappen.
Vereeniging "Koloniaal Instituut."
- LEYDEN: Curatorium of the University.
- S'GRAVENHAGE: Koninklijk Instituut voor Taal-, Land-, en Volkenkunde van Nederlands Indië.
- RUSSIA, FINLAND, HELSINGFORS: Société Finno-Ougrienne.
- PETROGRAD: Imperatorskaja Akademija Nauk.
Archeologiji Institut.
- SWEDEN, UPSALA: Humanistiska Vetenskaps-Samfundet.

ASIA

- CHINA, SHANGHAI: China Branch of the Royal Asiatic Society.
- TONKIN: Ecole Française d'extrême Orient (Rue de Coton),
Hanoi.

- INDIA, ALLAHABAD: Allahabad Public Library.
BOMBAY: Bombay Branch of the Royal Asiatic Society.
The Anthropological Society. (Town Hall.)
BENARES: Benares Sanskrit College, "The Pandit."
CALCUTTA: The Asiatic Society of Bengal. (57 Park St.)
The Buddhist Text Society. (86 Jaun Bazar St.)
Sanskrit College.
DELHI: Secretary to the Government of India, Department of
Education.
LAHORE: Library, University of the Punjab.
MADRAS: Oriental Manuscripts Library.
Presidency College.
SIMLA: Office of the Director General of Archaeology. (Ben-
more, Simla, Punjab.)
Secretary to the Government of India, Department of
Education, Simla.
SIAM, BANGKOK: Siam Society.
Vajirāna National Library.
CEYLON, COLOMBO: Ceylon Branch of the Royal Asiatic Society.
JAPAN, TOKYO: The Asiatic Society of Japan.
JAVA, BATAVIA: Bataviaasch Genootschap van Kunsten en Wetenschappen.
KOREA, SEOUL: Korea Branch of the Royal Asiatic Society.
NEW ZEALAND, NEW PLYMOUTH: The Polynesian Society.
PHILIPPINE ISLANDS, MANILA: The Ethnological Survey.
Philippine Library.
SYRIA, JERUSALEM: The American School. (Care U. S. Consul.)
SIBERIA, VLADIVOSTOK: Oriental Institute.
HAWAII, HONOLULU: Bernice Pauahi Bishop Museum.

AFRICA

- EGYPT, CAIRO: The Khedivial Library.

JOURNALS AND OTHER PUBLICATIONS

- The Indian Antiquary (Education Society's Press, Bombay, India).
Revue de l'Histoire des Religions (care of M. Jean Réville, chez M. E.
Leroux, 28 rue Bonaparte, Paris, France).
Archives orientales (care of Prof. J.-A. Lundell, Upsala, Sweden).
Orientalische Bibliographie (care of Prof. Lucian Scherman, Herzogstrasse
8, Munich, Bavaria).
Transactions of the American Philological Association (care of Prof.
C. P. Bill, Western Reserve University, Cleveland, O.).
Le Monde Oriental (care of Prof. K. F. Johansson, Upsala, Sweden).
Panini Office, Bhuvaneshwari, Asram, (Allahabad) Bahadurgany (India).
Siddhanta Dipika Office, Madras, N. C. (India).
Ceylon Antiquary and Literary Register (Colombo, Ceylon).
Revue Biblique (90 Rue Bonaparte, Paris, France).

Al-Machriq (Université St. Joseph, Beirut, Syria).

Revue de l'Orient Chrétien (care of Prof. Nau, Rue Littré 10, Paris, France).

Leipziger Semitistische Studien (J. C. Hinrichs, Leipzig, Germany).

Indian Text Series (care of J. Murray, Albemarle St., London, England).

Bibliotheca Buddhica (Petrograd, Russia).

Zeitschrift für die alttestamentliche Wissenschaft (care of Prof. D. Karl Marti, Marienstr. 25, Bern, Switzerland).

Beiträge zur Assyriologie und semitischen Sprachwissenschaft (J. C. Hinrichs'sche Buchhandlung, Leipzig, Germany).

Wiener Zeitschrift für die Kunde des Morgenlandes (care of Alfred Hölder, Rothenthurmstr. 15, Vienna, Austria).

Zeitschrift für vergleichende Sprachforschung (care of Prof. E. Kuhn, 3 Hess Str., Munich, Bavaria).

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